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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:21:53 ; Search time 36 Seconds

(without alignments)
198,605 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 1325
Sequence: 1 MRPLVLLLLGLAAGSPPLD.....DSTFGFLVYSDMHSSPVFA 243

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	ID	Description
1	1325	100.0	243	US-09-140-804-2	Sequence 2, Appl1
2	1325	100.0	243	US-09-336-536-3	Sequence 3, Appl1
3	1271	95.9	243	US-09-188-930-295	Sequence 295, Appl1
4	1258	94.9	243	US-09-336-536-10	Sequence 10, Appl1
5	1256	94.8	228	US-09-336-536-4	Sequence 4, Appl1
6	1200	90.6	228	US-09-336-536-11	Sequence 11, Appl1
7	675	50.9	128	US-09-336-536-7	Sequence 7, Appl1
8	650	49.1	128	US-09-336-536-14	Sequence 14, Appl1
9	433.5	32.7	247	US-08-463-911-2	Sequence 2, Appl1
10	428.5	32.3	247	US-09-140-804-8	Sequence 8, Appl1
11	428.5	32.3	247	US-09-118-408-3	Sequence 3, Appl1
12	428.5	32.3	247	US-09-506-855-3	Sequence 7, Appl1
13	424	32.0	244	US-08-463-911-7	Sequence 3, Appl1
14	424	32.0	244	US-09-140-804-3	Sequence 3, Appl1
15	424	32.0	244	US-09-336-536-20	Sequence 20, Appl1
16	424	32.0	244	US-09-530-423-1	Sequence 1, Appl1
17	417	31.5	231	US-09-530-423-2	Sequence 2, Appl1
18	412	31.1	246	US-08-463-911-4	Sequence 4, Appl1
19	399	30.1	294	US-09-188-930-294	Sequence 294, Appl1
20	347	26.2	60	US-09-336-536-13	Sequence 13, Appl1
21	324	24.5	60	US-08-383-744-2	Sequence 2, Appl1
22	316	23.8	433	US-08-999-336-2	Sequence 2, Appl1
23	316	23.8	433	PCT-US96-01427-2	Sequence 4, Appl1
24	316	23.8	433	US-09-140-804-4	Sequence 5, Appl1
25	280.5	21.2	215	US-09-140-804-5	Sequence 3, Appl1
27	277.5	20.9	185	US-08-463-911-3	Sequence 3, Appl1

28	276	20.8	236	US-09-140-804-6	Sequence 6, Appl1
29	266.5	20.1	198	US-09-188-930-138	Sequence 138, Appl1
30	257.5	19.4	130	US-09-485-316A-13	Sequence 13, Appl1
31	251.5	19.0	130	US-09-485-316A-12	Sequence 12, Appl1
32	243.5	18.4	130	US-09-485-316A-11	Sequence 11, Appl1
33	240	18.1	161	US-09-415-551-3	Sequence 3, Appl1
34	229.5	17.3	280	US-09-247-155-178	Sequence 178, Appl1
35	229.5	17.3	281	US-09-118-408-2	Sequence 2, Appl1
36	229.5	17.3	281	US-09-506-855-2	Sequence 2, Appl1
37	228	17.2	684	US-08-555-669-12	Sequence 12, Appl1
38	228	17.2	684	US-09-073-663-12	Sequence 12, Appl1
39	224	16.9	228	US-09-219-849-38	Sequence 38, Appl1
40	223	16.8	281	US-09-118-408-4	Sequence 44, Appl1
41	223	16.8	281	US-09-506-855-44	Sequence 44, Appl1
42	221	16.7	124	US-09-485-316A-9	Sequence 9, Appl1
43	219.5	16.6	1057	US-08-931-820-4	Sequence 4, Appl1
44	219.5	16.6	1078	US-08-963-825-21	Sequence 21, Appl1
45	219.5	16.6	1078	US-09-500-811-21	Sequence 21, Appl1

ALIGNMENTS

RESULT 1
US-09-140-804-2

Sequence 2, Application US/09140804
Patent No. 6197930

GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS

FILE REFERENCE: 97-49

CURRENT APPLICATION NUMBER: US/09/140, 804

EARLIER APPLICATION NUMBER: 1998-08-26

EARLIER FILING DATE: 1997-08-26

NUMBER OF SEQ ID NOS: 47

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 2

LENGTH: 243

TYPE: PRT

ORGANISM: Homo sapiens

US-09-140-804-2

Query Match

Best Local Similarity 100.0%; Score 1325; DB 4; Length 243;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQCLPRDGRDGDGAPG 60

DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQCLPRDGRDGDGAPG 60

QY 61 ARGEKGGGRGRLPEPRDPPGEGAGPAGTGTGAGCSVPKSAFSAKSESRRVPPSD 120

DB 61 ARGEKGGGRGRLPEPRDPPGEGAGPAGTGTGAGCSVPKSAFSAKSESRRVPPSD 120

QY 121 APLPEPRVLVNEQGHYDAVTKFTCOVPGVYFVAHATVYRASLOPDLVNGKSTASFPQ 180

DB 121 APLPEPRVLVNEQGHYDAVTKFTCOVPGVYFVAHATVYRASLOPDLVNGKSTASFPQ 180

QY 181 FFGGKPKRASISGAMRWLEPRDQVWVGVDYIGIYASIKTDSFTSGFLVYSDMHSSP 240

DB 181 FFGGKPKRASISGAMRWLEPRDQVWVGVDYIGIYASIKTDSFTSGFLVYSDMHSSP 240

QY 241 VFA 243

DB 241 VFA 243

RESULT 2

US-09-336-536-3

Sequence 3, Application US/09336536

Patent No. 6406884

```

; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 3
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-336-536-3

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```

Query Match          100.0%; Score 1325; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 9,5e-114;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Db 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Qy 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120
Db 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120
Qy 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Db 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Qy 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Db 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Qy 241 VFA 243
Db 241 VFA 243

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```

RESULT 3
US-09-188-930-295
; Sequence 295, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Murison, Rene
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 295
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Rat
US-09-188-930-295

```

```

Query Match          95.9%; Score 1271; DB 4; Length 243;
Best Local Similarity 95.1%; Pred. No. 8.2e-109;
Matches 231; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

```

```

Qy 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Db 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Qy 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120

```

```

Db 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120
Qy 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Db 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Qy 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Db 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Qy 241 VFA 243
Db 241 VFA 243

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```

RESULT 4
US-09-336-536-10
; Sequence 10, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 10
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-336-536-10

```

```

Query Match          94.9%; Score 1258; DB 4; Length 243;
Best Local Similarity 93.8%; Pred. No. 1.3e-107;
Matches 228; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

```

```

Qy 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Db 1 MRPLVLLILGLAAGSPPLDDNKIPSLCPGHGGLPGTGHGSGQLPGRDGRDGRDGAAG 60
Qy 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120
Db 61 APGEKGGGRPGLPGRGDPGRGEGAGPAGTGPAGECSVPKRSARSRVPPSD 120
Qy 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Db 121 APLEPRVILNQGHDATVTKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFQ 180
Qy 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Db 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIYASIKTSTSGFLVSDMHSSP 240
Qy 241 VFA 243
Db 241 VFA 243

```

```

RESULT 5
US-09-336-536-4
; Sequence 4, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-336-536-4

```

```

Query Match          94.9%; Score 1258; DB 4; Length 243;
Best Local Similarity 93.8%; Pred. No. 1.3e-107;
Matches 228; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

```

NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentId Ver. 2.0
SEQ ID NO 4
LENGTH: 228
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-4

Query Match 94.8%; Score 1256; DB 4; Length 228;
Best Local Similarity 100.0%; Pred. No. 1.8e-107;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SPPLDNDKIPSLCPGHPGLPGTGHGSGQLPGRDGRDGDGAPGAPGKGGKGRGLPG 75
DB 1 SPPLDNDKIPSLCPGHPGLPGTGHGSGQLPGRDGRDGDGAPGAPGKGGKGRGLPG 60
QY 76 PRGDPGRGAGAGPTGPAEGSVPRSAFSAKSESSESVPPSDAPLPFDRVLVNEQGH 135
DB 61 PRGDPGRGAGAGPTGPAEGSVPRSAFSAKSESSESVPPSDAPLPFDRVLVNEQGH 120
QY 136 YAAVTGKFTCOVGVYFAVHATVYRASLOPDLVKNGESIASFPQFGGMPKPASLSGGA 195
DB 121 YAAVTGKFTCOVGVYFAVHATVYRASLOPDLVKNGESIASFPQFGGMPKPASLSGGA 180
QY 196 MVRLEBEDQWVQGVGDYIGIYASIKTDSFTSGFLVYSDWHSSEVFA 243
DB 181 MVRLEBEDQWVQGVGDYIGIYASIKTDSFTSGFLVYSDWHSSEVFA 228

RESULT 6

US-09-336-536-11
Sequence 11, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336, 536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentId Ver. 2.0
SEQ ID NO 11
LENGTH: 228
TYPE: PRT
ORGANISM: Mus musculus
US-09-336-536-11

Query Match 90.6%; Score 1200; DB 4; Length 228;
Best Local Similarity 94.7%; Pred. No. 2.4e-102;
Matches 216; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 16 SPPLDNDKIPSLCPGHPGLPGTGHGSGQLPGRDGRDGDGAPGAPGKGGKGRGLPG 75
DB 1 SPPLDNDKIPSLCPGHPGLPGTGHGSGQLPGRDGRDGDGAPGAPGKGGKGRGLPG 60
QY 76 PRGDPGRGAGAGPTGPAEGSVPRSAFSAKSESSESVPPSDAPLPFDRVLVNEQGH 135
DB 61 PRGDPGRGAGAGPTGPAEGSVPRSAFSAKSESSESVPPSDAPLPFDRVLVNEQGH 120
QY 136 YAAVTGKFTCOVGVYFAVHATVYRASLOPDLVKNGESIASFPQFGGMPKPASLSGGA 195
DB 121 YAAVTGKFTCOVGVYFAVHATVYRASLOPDLVKNGESIASFPQFGGMPKPASLSGGA 180
QY 196 MVRLEBEDQWVQGVGDYIGIYASIKTDSFTSGFLVYSDWHSSEVFA 243
DB 181 MVRLEBEDQWVQGVGDYIGIYASIKTDSFTSGFLVYSDWHSSEVFA 228

RESULT 7
US-09-336-536-7
Sequence 7, Application US/09336536

Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336, 536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentId Ver. 2.0
SEQ ID NO 7
LENGTH: 128
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-7

Query Match 50.9%; Score 675; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 AFSAKSESSESVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVGVYFAVHATVYRASL 164
DB 1 AFSAKSESSESVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVGVYFAVHATVYRASL 60
QY 165 QPDLVKNGESIASFPQFGGMPKPASLSGGA MVRLEBEDQWVQGVGDYIGIYASIKTD 224
DB 61 QPDLVKNGESIASFPQFGGMPKPASLSGGA MVRLEBEDQWVQGVGDYIGIYASIKTD 120
QY 225 STFSGFLV 232
DB 121 STFSGFLV 128

RESULT 8

US-09-336-536-14
Sequence 14, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336, 536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentId Ver. 2.0
SEQ ID NO 14
LENGTH: 128
TYPE: PRT
ORGANISM: Mus musculus
US-09-336-536-14

Query Match 49.1%; Score 650; DB 4; Length 128;
Best Local Similarity 94.5%; Pred. No. 2.3e-52;
Matches 121; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 105 AFSAKSESSESVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVGVYFAVHATVYRASL 164
DB 1 AFSAKSESSESVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVGVYFAVHATVYRASL 60
QY 165 QPDLVKNGESIASFPQFGGMPKPASLSGGA MVRLEBEDQWVQGVGDYIGIYASIKTD 224
DB 61 QPDLVKNGESIASFPQFGGMPKPASLSGGA MVRLEBEDQWVQGVGDYIGIYASIKTD 120
QY 225 STFSGFLV 232
DB 121 STFSGFLV 128

RESULT 9
US-08-463-911-2

```

; Sequence 2, Application US/08463911
; Patent No. 5869330
; GENERAL INFORMATION:
; APPLICANT: Scherer, Philipp B.
; APPLICANT: Lodish, Harvey F.
; TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED
; TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Millita Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,911
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: WHI95-05
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 247 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-463-911-2

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Query Match      32.7%; Score 433.5; DB 2; Length 247;
Best Local Similarity 40.6%; Pred. No. 3,4e-32;
Matches 102; Conservative 32; Mismatches 92; Indels 25; Gaps 8;

QY 1 MRPLVLILL-GLAAGSPPLDNDKIPSLCPGHPG-----LPCTPGHHSOGILPGRDGRG 54
DB 4 LQALLFLILPSHADDVTTTEELAPALVPPPKGTCAQMMAGIPGHPGHNTPGRDGRD- 62
QY 55 RDGAPGAPGEGKGGPGLPGPRGD-----PGPRGAGPAGPTGPAGECSVPPRSA 105
DB 63 -----GTPEKGEKGDAGILGPKGTGDVMTGAGPRGPPOTGRKGPBEAAMYRSA 117
QY 106 FSAKRSERVPSPDAPLPEDRVLVNQGHDVATGKTCOVPGVYFAVAHATYRASLQ 165
DB 118 FSV-GLETRVTV-NVPIRFTKIFYNQNNHYDGTGKFCYCNIPGLYFSYHIITYMMDVK 175
QY 166 FDLVNGESIASFFQFGGMPKPSISGAMVRLPEPDQVWVOY-GVGDYIGIYASIKTD 224
DB 176 VSLFKDKAVLFYTDQGE-KNVDAQSGSVLHLLEVGDQVWLQYVGGDGHGLYADNVND 234
QY 225 STFGFLVYSD 235
DB 235 STFGFLVYD 245

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RESULT 10
US-09-140-804-8
; Sequence 8, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Humes, Jacqueline M.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-49

```

```

; CURRENT APPLICATION NUMBER: US/09/140,804
; CURRENT FILING DATE: 1998-08-26
; EARLIER APPLICATION NUMBER: 60/056,983
; EARLIER FILING DATE: 1997-08-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-140-804-8

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Query Match      32.3%; Score 428.5; DB 4; Length 247;
Best Local Similarity 40.2%; Pred. No. 9,7e-32;
Matches 101; Conservative 32; Mismatches 93; Indels 25; Gaps 8;

QY 1 MRPLVLILL-GLAAGSPPLDNDKIPSLCPGHPG-----LPCTPGHHSOGILPGRDGRG 54
DB 4 LQALLFLILPSHADDVTTTEELAPALVPPPKGTCAQMMAGIPGHPGHNTPGRDGRD- 62
QY 55 RDGAPGAPGEGKGGPGLPGPRGD-----PGPRGAGPAGPTGPAGECSVPPRSA 105
DB 63 -----GTPEKGEKGDAGILGPKGTGDVMTGAGPRGPPOTGRKGPBEAAMYRSA 117
QY 106 FSAKRSERVPSPDAPLPEDRVLVNQGHDVATGKTCOVPGVYFAVAHATYRASLQ 165
DB 118 FSV-GLETRVTV-NVPIRFTKIFYNQNNHYDGTGKFCYCNIPGLYFSYHIITYMMDVK 175
QY 166 FDLVNGESIASFFQFGGMPKPSISGAMVRLPEPDQVWVOY-GVGDYIGIYASIKTD 224
DB 176 VSLFKDKAVLFYTDQGE-KNVDAQSGSVLHLLEVGDQVWLQYVGGDGHGLYADNVND 234
QY 225 STFGFLVYSD 235
DB 235 STFGFLVYD 245

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```

RESULT 11
US-09-118-408-3
; Sequence 3, Application US/09118408A
; Patent No. 6265544
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-30
; CURRENT APPLICATION NUMBER: US/09/118,408A
; CURRENT FILING DATE: 1998-07-17
; EARLIER APPLICATION NUMBER: 60/053,154
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-118-408-3

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Query Match      32.3%; Score 428.5; DB 4; Length 247;
Best Local Similarity 40.2%; Pred. No. 9,7e-32;
Matches 101; Conservative 32; Mismatches 93; Indels 25; Gaps 8;

QY 1 MRPLVLILL-GLAAGSPPLDNDKIPSLCPGHPG-----LPCTPGHHSOGILPGRDGRG 54
DB 4 LQALLFLILPSHADDVTTTEELAPALVPPPKGTCAQMMAGIPGHPGHNTPGRDGRD- 62
QY 55 RDGAPGAPGEGKGGPGLPGPRGD-----PGPRGAGPAGPTGPAGECSVPPRSA 105
DB 63 -----GTPEKGEKGDAGILGPKGTGDVMTGAGPRGPPOTGRKGPBEAAMYRSA 117
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RESULT 15

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US-09-336-536-20
; Sequence 20, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bosson, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 20
; LENGTH: 244
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-336-536-20
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Best Local Similarity 40.5%; Pred. No. 2.5e-31;
Matches 106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;
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Search completed: June 20, 2003, 11:26:49
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 20, 2003, 06:14:37 ; Search time 3597 Seconds

(without alignments)
11141.107 Million cell updates/sec

Title: US-09-944-403-41

Perfect score: 1377
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Scoring table: IDENTITY NUC
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Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	1322.2	96.0	1337	9	AF329841
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5	1064.4	77.3	1068	9	HSM800923
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7	909.8	66.1	219574	9	AP002956
8	896.2	65.1	182429	2	AP001557
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ALIGNMENTS

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ACCESSION	AX464228	VERSION	AX464228.1	KEYWORDS	GI:21899130			
SOURCE	ORGANISM	human.						
REFERENCE	AUTHORS	Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, R., Gao, W.O., Gerritsen, M.E., Goddard, A., Godowski, P.J., Guirney, A.L., Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,						


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Best Local Similarity	99.8%;	Pred. No. 3.5e-218;		
Matches 1324;	Conservative	0;	Mismatches 3;	Indels 0;
				Gaps 0;

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QY	100	AGGCGGGGGGCTGAGAGCAACCACTGAGAGGTCCGAGATGAGAGCGCCCGCAAGAG	159
Db	71	AGGCGGGGGGCTGAGAGCAACCACTGAGAGGTCCGAGATGAGAGCGCCCGCAAGAG	130
QY	160	GCCATCGGGAGCCGGAGGGGGGACTGGAGAGACCCCGGCTCCGGCTCCGGTGC	219
Db	131	GCCATCGGGAGCCGGAGGGGGGACTGGAGAGACCCCGGCTCCGGCTCCGGTGC	190
QY	220	CAGCGCTATAGGCACTCTCTGTCTGTCTCTTGGGCTTGGCGGGGCTGGCCCC	279
Db	191	CAGCGCTATAGGCACTCTCTGTCTGTCTCTTGGGCTTGGCGGGGCTGGCCCC	250
QY	280	ACTGAGAGCAACAAGATCCCACTCTGTGCGGGGGGACCCCGGCTTCAGAGCAAGC	339
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QY	340	GGGCAACATGCGACCGCAGGGCTTGCCTGGGCGCGATGAGCCGCGACCGGCGCGC	399
Db	311	GGGCAACATGAGGACCGCAGGGCTTGCCTGGGCGCGATGAGCCGCGACCGGCGCGC	370
QY	400	GCCCCGGGGCTTCGGGAGAGAAAGCGAGGGCGGGAGGCGGGACTGCGGGGACTCGAGG	459
Db	371	GCCCCGGGGCTTCGGGAGAGAAAGCGAGGGCGGGAGGCGGGACTGCGGGGACTCGAGG	430
QY	460	GGACCCCGGGGCGGAGGAGAGGGCGGGACCCGCGGGGGCCACCCGGGCTGCGGGGAGTG	519
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VERSION	AL110261.1	GI:5817222	
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AUTHORS	1 (bases 1 to 1068) Ottensmeyer, B., Obermaier, B., Mewes, H.W., Gassenhuber, J. and Wiemann, S.		
TITLE	Direct Submission		
JOURNAL	Submitted (15-AUG-1999) MIPS, Am Klopferspitz 18a, D-82152 Martinsried, GERMANY		
COMMENT	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by MedGenomix (Martinsried/Germany) within the CDNA sequencing consortium of the German Genome Project. This clone (DKFZ586B0621) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further information about the clone and the sequencing project is available at http://www.mips.biochem.mpg.de/proj/cdna/ .		
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LOCUS	AP003396/c	191362 bp	DNA	linear	PRI 25-APR-2002
DEFINITION	Home sapiens genomic DNA, chromosome 11q clone:RP11-334B6, complete				
ACCESSION	AP003396				
VERSION	AP003396.1	GI:20302607			
KEYWORDS	HTG.				
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ORGANISM	Home sapiens				
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AUTHORS	1				
TITLE	Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P., Fujitama, A., Yada, T., Totoki, Y., Watanabe, H. and Sakaki, Y.				
JOURNAL	Home sapiens genomic DNA				
REFERENCE	Published Only in Database (2002)				
AUTHORS	2 (bases 1 to 191362)				
TITLE	Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P., Fujitama, A., Yada, T., Totoki, Y., Watanabe, H. and Sakaki, Y.				
JOURNAL	Direct Submission				
COMMENT	Submitted (12-MAR-2001) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: hattori@isc.riken.go.jp, URL: http://hgp.gsc.riken.go.jp/, Tel: 81-45-503-9111, Fax: 81-45-503-9170)				
FEATURES	This work was done in collaboration with Arai, Y., Kubo, T. and Ohki, M.				
SOURCE	National Cancer Center Research Institute Cancer Genomic Division 5-1-1, Tsukiji, Chuo-ku, Tokyo, JAPAN zip: 104-0045 phone: 81-3-3542-2511 ex 4752; fax: 81-3-3542-0688 e-mail: yara@nc.ccr.go.jp.				
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VERSION	AP002956.1		
KEYWORDS	GI:22255355		
SOURCE	HTG.		
ORGANISM	Homo sapiens DNA, clone:RI105H09.		
REFERENCE	Homo sapiens		
AUTHORS	Mumaiyola, Wetzara, Chordata; Craniata; Vertebrata; Euteleostomi; Eumalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	Hattori, M., Toyoda, A., Taylor, T. D., Fujiyama, A., Yada, T.,		
JOURNAL	Tokoki, Y., Watanabe, H. and Sakaki, Y.		
AUTHORS	Homo sapiens 219,574 genomic DNA of 11q		
	Published Only in Database (2002)		
	2 (bases 1 to 219574)		
	Hattori, M., Toyoda, A., Taylor, T. D., Fujiyama, A., Yada, T.,		
	Tokoki, Y., Watanabe, H. and Sakaki, Y.		
	Direct Submission		
	Submitted (24-NOV-2000) Masahira Hattori, The Institute of Physical		
	and Chemical Research (RIKEN), Genomic Sciences Center (GSC),		
	1-7-22 Suehiro-chou, Tsukuba, Ibaraki, Japan		
	(E-mail: hattori@gs.c.riken.go.jp, URL: http://hnp.gs.c.riken.go.jp/,		
	Te: 81-45-503-9111, Fax: 81-45-503-9170)		
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VERSION AP001557.3 GI:11094164
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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REFERENCE 1 (bases 1 to 182429)
AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
Fujiyama,A., Yada,T., Toroki,Y., Watanabe,H. and Sakaki,Y.
Homo sapiens 182,429 genomic DNA of 11q23
2 (bases 1 to 182429)
PUBLISHED Only in Database (2000)
Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
Fujiyama,A., Yada,T., Toroki,Y., Watanabe,H. and Sakaki,Y.
Direct Submission
Submitted (29-MAR-2000) Masahira Hattori, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel:81-45-503-9111, Fax:81-45-503-9170
URL:http://hgp.gsc.riken.go.jp/,
On Nov 3, 2000 this sequence version replaced gi:8117391.
----- Genome Center
Center: RIKEN Genomic Sciences Center (GSC)
Web site: http://hgp.gsc.riken.go.jp/
Contact: hattori@gsc.riken.go.jp
----- Project Information
Center Project name: Humdrat11
Center clone name: RP11-680A7
----- Summary Statistics
Sequencing vector: PCR products; 100% of reads
Chemistry: Dye-terminator ET-amersham; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 175597 bases at least Q40
Consensus quality: 17855 bases at least Q30
Consensus quality: 179768 bases at least Q20
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Quality coverage: 9.01x in Q20 bases; sum-of-contigs
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order in this sequence record is arbitrary. Gaps between the
contigs are represented as runs N, but the exact sizes of the gaps
are unknown. This record will be updated with the finished sequence
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AF469650.1 GI:22023766
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurgnathi; Muridae; Mus.
1 (bases 1 to 4220)
Kameya,S., Hawes,N.L., Chang,B., Heckenlively,J.R., Nagert,J.K. and Nishina,P.M.
Mfpr, a gene encoding a frizzled related protein, is mutated in the mouse retinal degeneration 6
Hum. Mol. Genet. 11 (16), 1879-1886 (2002)
12140190
2 (bases 1 to 4220)
Kameya,S., Nagert,J.K. and Nishina,P.M.
Direct Submission
Submitted (17-JAN-2002) The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609, USA
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 ORGANISM Homo sapiens
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 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 TITLE Published Only in Database (2000)
 JOURNAL 2 (bases 1 to 173038)
 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 AUTHORS
 DIRECT SUBMISSION
 TITLE Submitted (05-JAN-2000) Masahira Hattori, The Institute of Physical
 and Chemical Research (RIKEN), Genomic Sciences Center (GSC);

COMMENT

Kitaato Univ., 1-15-1 Kitaato, Sagamihara, Kanagawa 228-8555,
Japan [E-mail:hatori@sc.riken.go.jp,
URL:http://hgp.sc.riken.go.jp/, Tel:01-42-778-9923,
Fax:01-42-778-9924]
On May 31, 2000 this sequence version replaced gi:697762.

Center: RIKEN Genomic Sciences Center (GSC)

Center code: RIKEN

Web site: http://hgp.sc.riken.go.jp/
Contact: hatori@sc.riken.go.jp

Project Information

Center project name: HumDrift11

Center clone name: RP11-680C5

Summary Statistics

Sequencing vector: PCR products; 100% of reads
Chemistry: Dye-terminator ET-amersham; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 149676 bases at least Q40
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Consensus quality: 167161 bases at least Q20
Insert size: 170338; sum-of-ctnigs
Quality coverage: 4.33x in Q20 bases; sum-of-ctnigs

NOTE: This is a 'working draft' sequence. It currently consists of 28 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved

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33790 47432 contig of 13643 bp in length
47533 63392 contig of 15860 bp in length
63493 74234 contig of 10742 bp in length
74335 85357 contig of 11023 bp in length
85458 93597 contig of 8140 bp in length
93698 101983 contig of 8286 bp in length
102084 110022 contig of 7994 bp in length
110123 118117 contig of 7994 bp in length
118117 126464 contig of 8248 bp in length
126464 132136 contig of 5572 bp in length
132136 135290 contig of 3054 bp in length
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173038 173038 contig of 1213 bp in length
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* is not known and their order in this sequence record is
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* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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FEATURES

source

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QY 664 GGTGCTGGGGCTTACTACTTGGCGGTCATACGCAACGCTTACCGGGCCAGCTTCAGTT 723
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QY 724 TGATCTGTGAAGATGCGAATCATTCGCTTTCTTCAGTTTTC-GGGGGGTGGC 782
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Db 167057 CTTTCTCGGATTTCTGGTACTCCGACTGGCAGCTCCCAAGTCTTTGCTTAGTGCC 167116
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DEFINITION BC025174
ACCESSION BC025174 GI:19263583
VERSION
KEYWORDS
SOURCE house mouse.
ORGANISM Mus musculus.
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 1234)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (05-MAR-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NTH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Baylor College of Medicine Human Genome
Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
Gumartine, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Hale, S.M.,
Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M.,
Richards, S., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILNI.ac: http://image.llnl.gov
Series: IRAC Plate: 61 Row: f Column: 24
This clone was selected for full length sequencing because it
passed the following selection criteria: Hexamer frequency ORP
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Sequence updated (25-May-2000).

NOTE: This is a 'working draft' sequence. It currently consists of 42 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

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FEATURES

Source

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 Umanai, K., Vasquez, L., Vayla, V., Villalón, D., Vinson, R., Wang, Q.,
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 Williams, G., Williamson, A., Wleczyk, R., Woodson, S., Worley, K.,
 Wu, C., Wu, Y., Wu, Y. P., Zhou, J., Zorilla, S., Nelson, D.,
 Weinstock, G., and Gibbs, R.

Direct Submission
 2 (bases 1 to 173657)
 Worley, K.C.

Direct Submission
 Submitted (22-FEB-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 173657)
 Worley, K.C.

Direct Submission
 Submitted (14-JUL-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Jul 12, 2002 this sequence version replaced gi:18860143.

 Center: Baylor College of Medicine
 Genome Center
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu

 Project Information
 Center project name: GKAB
 Center clone name: CH210-904

 Sequencing vector: Plasmid
 Chemistry: Dye-terminator Big Dye: 100% of reads
 Assembly program: Phrap, version 0.990129
 Consensus quality: 105614 bases at least Q40
 Consensus quality: 111210 bases at least Q30
 Consensus quality: 115587 bases at least Q20

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html)
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 72 contigs. The true order of the pieces
 * is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence.
 * as soon as it is available and the accession number will
 * be preserved.

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RESULT 15			
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DEFINITION	Sequence 10 from patent US 6137930.		linear
ACCESSION	AB123456		PAT 16-JUN-2001

REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES	source	BASE COUNT	ORIGIN
1 (bases 1 to 729)	Sheppard, P.O. and Humes, J.M.	Adipocyte-specific protein homologs	Patent: US 6197930-A 10 06-MAR-2001	Location/Qualifiers 1..729	/organism="unknown"	77 a 101 c 160 g	81 t

Query Match	36.6%	Score	504	DB	6	Length	729
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Matches	419	Conservative	145	Mismatches	164	Indels	0
						Gaps	0

[illegible]

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QY 887 ATCAAGACAGACAGCACTTCTCCGGAATTTCTGNGTACTCCGACTGGCACACTCCCCA 946

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QY 947 GTCTTTGC 954

Db 721 GTNTTTGC 728

Search completed: June 20, 2003, 08:11:46
Job time : 3606 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 20, 2003, 05:50:03 ; Search time 348 Seconds

Title: US-09-944-403-41
Perfect score: 1277

Sequence: 1 gactagtctcttgagtc.....aaaaaaaaaaaaaa 1377

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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24:	/SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1377	100.0	1377	20	AAK87258	CDNA clone encodin
2	1377	100.0	1377	20	AAK80052	Human PRO344 nucle
3	1377	100.0	1377	21	AAAD61241	Human PRO344 prote
4	1377	100.0	1377	21	AAA446907	CDNA encoding nove
5	1377	100.0	1377	21	AAA495601	Human PRO344 CDNA.
6	1377	100.0	1377	22	AA521424	Human CDNA sequenc
7	1375.4	99.9	1377	21	AAC56826	Human PRO344 prote
8	1332.2	96.0	1347	20	AAK24684	Human adipocyte-sp
9	1296.6	94.2	1338	22	AAK49570	Human TANCO 253 co

10	1295	94.0	1338	22	AAFP44938	Human secreted pro
11	1295	94.0	1338	22	AAFP44939	Human secreted pro
12	1295	94.0	1338	22	AAFP45000	Human secreted pro
13	1295	94.0	1338	22	AAFP45001	Human secreted pro
14	1084.8	78.8	1348	24	AAFL39624	Human secreted pro
15	923.6	67.1	1082	23	AAST69111	Human secreted pro
16	763	55.4	1082	24	AAAG62288	CDNA encoding novel
17	717	52.1	728	22	AAFP44971	CDNA sequence #15
18	717	52.1	728	22	AAFP44977	Human TANGO 253 OR
19	715.4	52.0	728	22	AAFP44997	Human secreted pro
20	715.4	52.0	728	22	AAFP44994	Human secreted pro
21	715.4	52.0	728	22	AAFP44995	Human secreted pro
22	692.8	50.3	1263	22	AAFP44972	Human secreted pro
23	691.2	50.2	1263	22	AAFP5006	Murine TANGO 253 O
24	691.2	50.2	1263	22	AAFP5007	Murine secreted pr
25	691.2	50.2	1263	22	AAFP5008	Murine secreted pr
26	691.2	50.2	1263	22	AAFP5009	Murine secreted pr
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28	606	44.0	1001	21	AAAG69678	Skin cell cDNA, SE
29	606	44.0	1001	24	ABL344830	Rat cDNA isolated
30	606	44.0	1001	21	AAAG61635	CDNA encoding rat
31	606	44.0	1015	21	AAAG9568	Skin cell cDNA, SE
32	606	44.0	1015	24	ABL34720	Rat cDNA isolated
33	596	43.3	729	22	AAAH33447	Human colon cancer
34	564.2	41.0	729	22	AAAF44973	Murine TANGO 253 c
35	562.6	40.9	729	22	AAAF45038	Murine secreted pr
36	562.6	40.9	729	22	AAAF45039	Murine secreted pr
37	562.6	40.9	729	22	AAAF45040	Murine secreted pr
38	562.6	40.9	729	22	AAAF45041	Murine secreted pr
39	504	36.6	729	20	AAAG2485	Degenerate DNA enc
40	257.8	25.2	502	21	AAAG298154	Human signal pepti
41	257.8	18.7	601	22	AAAF44991	Rat TANGO 253 codi
42	247.4	18.0	536	23	AAAG76910	DNA encoding novel
43	149.6	10.9	393	21	AAAG61631	CDNA encoding rat
44	149.6	10.9	393	21	AAAG61631	Skin cell cDNA, SE
45	149.6	10.9	393	24	ABL34716	Rat cDNA isolated

ALIGNMENTS

ID	AAK87258	AAK87258 standard; cDNA, 1377 BP.
AC	AAK87258;	
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XX	27-SEP-1999	(first entry)
XX		
XX	CDNA clone encoding human PRO344, amplified in tumour cells.	
XX	PRO344; UNQ0303; cancer; tumour; diagnosis; therapy; human; ss	
XX		
XX	Homo sapiens.	
XX		
XX		
XX	Key	Location/Qualifiers
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XX	05-JAN-1999;	99WO-US00106.
XX		
XX	20-NOV-1998;	98US-0109304.
XX	05-JAN-1998;	98US-0070440.
XX	29-APR-1998;	98US-0083500.
XX	22-MAY-1998;	98US-0086414.
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QY	901	CACCTTCTCCGATTTCTGTGTGATCTCGGACTGACAGCTCCCAAGCTCTTGTAGTG	960
Db	901	CACCTTCTCCGATTTCTGTGTGATCTCGGACTGACAGCTCCCAAGCTCTTGTAGTG	960
QY	961	CCCACTGCAAAATGAGCTCATAGCTCTCACTCTAAGAGAGGAGTGAAGGCTGAGACA	1020
Db	961	CCCACTGCAAAATGAGCTCATAGCTCTCACTCTAAGAGAGGAGTGAAGGCTGAGACA	1020
QY	1021	GCTTATTCAGAGAGGCTGACCCCTCGATATTTGTGAATGAATGACTAAGGAGTGGGTAGA	1080
Db	1021	GCTTATTCAGAGAGGCTGACCCCTCGATATTTGTGAATGAATGACTAAGGAGTGGGTAGA	1080
QY	1081	GCACTTCCGCTCTCTCTGTGAGCAAGAAATGAGAAAGTGGCTGTGAGATCAAGTCTG	1140
Db	1081	GCACTTCCGCTCTCTCTGTGAGCAAGAAATGAGAAAGTGGCTGTGAGATCAAGTCTG	1140
QY	1141	GCAGCAGTGGGAGATGTGCTGAATTTCTGCCAAGACCAAGAGATGTGCTGTGCTGGAA	1200
Db	1141	GCAGCAGTGGGAGATGTGCTGAATTTCTGCCAAGACCAAGAGATGTGCTGTGCTGGAA	1200

Db 1201 GTTAAAGTCCCGGAGTGTCTGTGTCAGAGAGCCCAAGGAGGAGTCTCTCTGCTGATC 1260
 Qy 1261 CTCTGCTCTCTGATGATCTCTCCCAAGCCCTCTGCTCTGAGGAGCCCTTTTCTCAGA 1320
 Db 1261 CTCTGCTCTCTGATGATCTCTCCCAAGCCCTCTGCTCTGAGGAGCCCTTTTCTCAGA 1320
 Qy 1321 GATCACTCAATTAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAA 1377
 Db 1321 GATCACTCAATTAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAA 1377
 RESULT 4
 ID AAA46907 standard; cDNA; 1377 BP.
 AC AAA46907;
 XX
 XX 03-OCT-2000 (first entry)
 DE cDNA encoding novel polypeptide PRO344.
 XX
 XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
 KM PRO1715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
 KM tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.
 XX Homo sapiens.
 OS
 FH
 FH Key Location/Qualifiers
 FT CDS 227..958
 FT /tag= a
 PN WO200037640-A2.
 XX
 PD 29-JUN-2000.
 XX
 PF 16-DEC-1999; 99WO-US30095.
 XX
 PR 22-DEC-1998; 98US-0113296.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Borstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
 PI Wood WI;
 XX WPI; 2000-452188/39.
 DR P-PSDB; AAY93688.
 DR
 XX
 PT New anti-polypeptide antibody useful in the treatment and diagnosis of
 PT neoplastic cell growth and proliferation -
 XX
 PS Claim 50; Fig 9; 220pp; English.
 XX
 XX The present sequence encodes a novel human polypeptide. The
 CC specification describes novel polypeptides designated PRO201, PRO292,
 CC PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO1017,
 CC PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in
 CC the genome of tumour cells. The polypeptides are believed to contribute
 CC to tumorigenesis. The polypeptides are useful target for the
 CC identification of certain cancers, and may act as predictors of the
 CC prognosis of tumour treatment. Antibodies against these polypeptides
 CC are useful in the treatment and diagnosis of neoplastic cell growth
 CC and proliferation in mammals.
 XX
 SO Sequence 1377 BP; 251 A; 422 C; 472 G; 232 T; 0 other;

Query Match 100.0%; Score 1377; DB 21; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 1.7e-244;
 Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GACTAGTTCTCTTGGAGTCTTGGAGAGAGAAAGGAGAGCCGAGAGGAGCAACGAGAC 60
 Db 1 GACTAGTTCTCTTGGAGTCTTGGAGAGAGAAAGGAGAGCCGAGAGGAGCAACGAGAC 60
 Qy 61 TGGGGTGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 Db 61 TGGGGTGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 Qy 61 TGGGGTGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 Db 61 TGGGGTGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 Qy 121 CCAACTGGAAGGAGTCCGAGAGTGAAGAGAGCCGCAAGAGAGGAGGAGGAGGAGGAGG 180
 Db 121 CCAACTGGAAGGAGTCCGAGAGTGAAGAGAGCCGCAAGAGAGGAGGAGGAGGAGGAGG 180
 Qy 121 CCAACTGGAAGGAGTCCGAGAGTGAAGAGAGCCGCAAGAGAGGAGGAGGAGGAGGAGG 180
 Db 121 CCAACTGGAAGGAGTCCGAGAGTGAAGAGAGCCGCAAGAGAGGAGGAGGAGGAGGAGG 180
 Qy 181 GGGAGTGGAG 240
 Db 181 GGGAGTGGAG 240
 Qy 181 GGGAGTGGAG 240
 Db 181 GGGAGTGGAG 240
 Qy 241 CGTCTGCTGCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 Db 241 CGTCTGCTGCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 Qy 241 CGTCTGCTGCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 Db 241 CGTCTGCTGCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 Qy 301 GAGCTCTGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
 Db 301 GAGCTCTGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
 Qy 301 GAGCTCTGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
 Db 301 GAGCTCTGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
 Qy 361 CTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 Db 361 CTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 Qy 361 CTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 Db 361 CTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 Qy 421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 Db 421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 Qy 421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 Db 421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 Qy 481 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
 Db 481 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
 Qy 481 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
 Db 481 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
 Qy 541 CTTCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
 Db 541 CTTCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
 Qy 541 CTTCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
 Db 541 CTTCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
 Qy 601 CGAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
 Db 601 CGAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
 Qy 601 CGAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
 Db 601 CGAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
 Qy 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
 Db 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
 Qy 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
 Db 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
 Qy 721 GTTGTATCTGAG 780
 Db 721 GTTGTATCTGAG 780
 Qy 721 GTTGTATCTGAG 780
 Db 721 GTTGTATCTGAG 780
 Qy 781 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
 Db 781 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
 Qy 781 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
 Db 781 GGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
 Qy 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 Db 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 Qy 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 Db 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 Qy 901 CACCTTCTCCGAGATTTCTGAGTACTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Db 901 CACCTTCTCCGAGATTTCTGAGTACTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Qy 901 CACCTTCTCCGAGATTTCTGAGTACTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Db 901 CACCTTCTCCGAGATTTCTGAGTACTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Qy 961 CCACTGGAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1020
 Db 961 CCACTGGAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1020

Df		1321	GATGACTCATATAACCTTAGAACCCCTCATTA	AAAAAAAAAAAAAAAAAAAAA	1377
RESULT 7					
ID	AAC58626				
XX	AAC58626 strand; cDNA; 1377 bp.				
AC	AAC58626;				
DT	29-JAN-2001	(first entry)			
DE	Human PRO344 protein UNQ303 encoding cDNA SEQ ID NO:240.				
KW	Human; immune related disease; diagnosis; antiinflammatory; cardiant; dermatological; antilarthritis; antirheumatic; immunosuppressive; haemostatic; antithyroid; antidiabetic; neutrotropic; neuroprotective; antiasthenic; hepatotropic; vitucide; antisporitic; antiallergic; antiaesthetic; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; spondylarthropathy; systemic sclerosis; sarcoidosis; idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis; systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus; autoimmune chromocyclopentasia; immune-mediated renal disease; defmyelinating disease; hepatobiliary disease; Whipple's disease; inflammatory bowel disease; gluten-sensitive enteropathy; autoimmune disease; immune-mediated skin disease; allergic disease; immunological disease; transplantation associated disease; graft rejection; graft-versus-host-disease; ss.				
OS	Homo sapiens.				
XX					
XX	WO200053758-A2.				
PD	14-SEP-2000.				
FE	02-MAR-2000; 2000MO-US05841.				
PR	08-MAR-1999; 99MO-US05028. 10-MAR-1999; 99MO-0123618. 12-MAR-1999; 99MO-0123957. 23-MAR-1999; 99MO-0125775. 12-APR-1999; 99MO-0128849. 20-APR-1999; 99MO-US08615. 28-APR-1999; 99MO-0131445. 04-MAY-1999; 99MO-0132371. 14-MAY-1999; 99MO-0134287. 02-JUN-1999; 99MO-US12252. 23-JUN-1999; 99MO-0141037. 20-JUL-1999; 99MO-0144758. 26-JUL-1999; 99MO-0145698. 28-JUL-1999; 99MO-0146222. 01-SEP-1999; 99MO-US20111. 08-SEP-1999; 99MO-US20594. 13-SEP-1999; 99MO-US20944. 15-SEP-1999; 99MO-US21090. 15-SEP-1999; 99MO-US21547. 05-OCT-1999; 99MO-US23089. 29-OCT-1999; 99MO-0162506. 29-NOV-1999; 99MO-US28214. 30-NOV-1999; 99MO-US28313. 30-NOV-1999; 99MO-US28409. 01-DEC-1999; 99MO-US28301. 01-DEC-1999; 99MO-US28634. 02-DEC-1999; 99MO-US28551. 02-DEC-1999; 99MO-US28564. 02-DEC-1999; 99MO-US28655. 16-DEC-1999; 99MO-US30095. 16-DEC-1999; 99MO-US30999. 30-DEC-1999; 99MO-US31274. 05-JAN-2000; 2000MO-US00219. 06-JAN-2000; 2000MO-US00277. 06-JAN-2000; 2000MO-US00376. 11-FEB-2000; 2000MO-US03565. 18-FEB-2000; 2000MO-US04341.				

PR 18-FEB-2000; 2000MO-US04342.
PR 22-FEB-2000; 2000MO-US04414.

XX (GENT) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W,
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V,
PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M,

DR MPI: 2000-572271/53.
F-PSDB, AAB33461.

XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -

XX Claim 23; Fig 95; 309pp; English.

XX The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthritis,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal diseases, demyelinating diseases of the central
CC and peripheral nervous systems, hepatobiliary diseases, inflammatory
CC bowel disease, gluten-sensitive enteropathy and Whipple's disease,
CC autoimmune or immune-mediated skin diseases, allergic diseases,
CC immunological diseases of the lung, and transplantation associated
CC diseases including graft rejection and graft-versus-host-disease.
CC AAC58397 to AAC58578 represent PCR primers and hybridisation probes used
CC in the isolation of human PRO sequences. AAC58579 to AAC58642 and
CC AAB33414 to AAB33477 represent human PRO polynucleotide and protein
CC sequences given in the exemplification of the present invention.

XX Sequence 1377 BP; 251 A; 423 C; 471 G; 232 T; 0 other;

XX Query Match 99.9%; Score 1375.4; DB 21; Length 1377;

XX Best Local Similarity 99.9%; Pred. No. 3.3e-244;

XX Matches 1376; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 1 GACTAGTCTCTTGAAGTGTGAGAGAGAAAGCCGAGCCGAGGAGCGAACCAGAC 60
DB 1 GACTAGTCTCTTGAAGTGTGAGAGAGAAAGCCGAGCCGAGGAGCGAACCAGAC 60
QY 61 TGGGGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
DB 61 TGGGGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
QY 121 CCAGCTGAGAGGAGTCCGAGAGTGAAGAGCCGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 121 CCAGCTGAGAGGAGTCCGAGAGTGAAGAGCCGAGAGAGAGAGAGAGAGAGAGAG 180
QY 181 GGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 GAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 GAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 420
DB 361 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 420
QY 421 AGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480

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DB 421 AGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
QY 481 GAGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
DB 481 GAGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
QY 541 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 600
DB 541 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 600
QY 601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
DB 601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
QY 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
DB 661 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
QY 721 GTTGAATCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 721 GTTGAATCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
QY 781 GCGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 781 GCGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
QY 841 GTGGGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
DB 841 GTGGGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
QY 901 CAGCTTCTCCGAGATTTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 901 CAGCTTCTCCGAGATTTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
QY 961 CCACTGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
DB 961 CCACTGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
QY 1021 GGTGATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
DB 1021 GGTGATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
QY 1081 GCACTTCTCCGAGATTTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1081 GCACTTCTCCGAGATTTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
QY 1141 GAGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
DB 1141 GAGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
QY 1201 GTGTAAGTCCCGAGTGTGCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
DB 1201 GTGTAAGTCCCGAGTGTGCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
QY 1261 CTGCTGCTTCTGAGTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
DB 1261 CTGCTGCTTCTGAGTCTGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
QY 1321 GATGATCTGAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377
DB 1321 GATGATCTGAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377

```

RESULT 8

AXX24684

AXX24684 standard; cDNA; 1347 BP.

AXX24684;

21-JUN-1999 (first entry)

Human adipocyte-specific protein zs1g39 cDNA.

Db 1274 TCTCAGAGATCACTCAATAAAGAACCTTCCTCAAAAAAAAAAAAAAAAAAAAA 1328

RESULT 10
AAFA4998
ID AAFA4998 standard; cDNA; 1338 BP.
XX
AC AAFA4998;
XX
DT 28-MAR-2001 (first entry)
XX
DE Human secreted protein related coding sequence SEQ ID NO: 103.
XX
KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KW INTERCEPT 258; coronary disorder; olfactory disorder;
KW neurological disorder; pulmonary disorder; immunological disorder;
KW developmental disorder; kidney disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200078808-A1.
XX
PD 28-DEC-2000.
XX
PF 19-JUN-2000; 2000MO-US16883.
XX
PR 18-JUN-1999; 99US-0336536.
XX
PA (MILL-) MILLENNIUM PHARM INC.
XX
PI Leiby KR, McKay C, Bossone S;
XX
DR WPI; 2001-050109/06.
XX
XX New nucleic acids for treating diseases and disorders, e.g.
XX atherosclerosis, infection, autoimmune diseases, obesity, ear
XX disorders, brain disorders, tumors, diabetes, arthritis, multiple
XX sclerosis and asthma -
XX
XX disclosure; Page 271; 332pp; English.
XX
XX The present invention provides the protein and coding sequences of the
XX human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
XX TANGO 281 and INTERCEPT 258. These are useful in the treatment of
XX coronary, pulmonary, olfactory, immunological, neurological,
XX developmental and kidney disorders.
XX
XX Sequence 1338 BP; 229 A; 422 C; 460 G; 227 T; 0 other;
XX

Query Match 94.0%; Score 1295; DB 22; Length 1338;
Best Local Similarity 99.5%; Pred. No. 2e-229;
Matches 1309; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 54 CCAGAGCTGGGTGACCGCAGGAGGCGGCTGCGCCGGGAGAAAGCGGGGCTGG 113
DB 15 CCGGAGCTGGGGTGCAGCGAGGAGGCGGCTGCGCCGGGAGAAAGCGGGGCTGG 74

QY 114 AGACACCACTGAGAGGCTCCGAGTAGAGAGCGCCCGCAAGAGGCTCATCGGGAGCC 173
DB 75 AGACACCACTGAGAGGCTCCGAGTAGAGAGCGCCCGCAAGAGGCTCATCGGGAGCC 134

QY 174 GGGAGGGGGAGCTGCGAGAGAGACCCCGGCGCTCCGGGTGCGAGGCTATYAGAGC 233
DB 135 GGGAGGGGGAGCTGCGAGAGAGACCCCGGCGCTCCGGGTGCGAGGCTATYAGAGC 194

QY 234 CACTCTCTGCTGCTGCTCTCTGCGGCTGCGGGCTGCGCTGCGCTCACTGAGAGCAAA 293
DB 195 CACTCTCTGCTGCTGCTCTCTGCGGCTGCGGGCTGCGGGCTGCGCTCACTGAGAGCAAA 254

QY 294 AGATCCCCAGGCTGCGCCGGGGAGACCCCGGCTTTCAGAGGAGCGCGGGAGCAATGGCA 353
DB 255 AGATCCCCAGGCTGCGCCGGGGAGACCCCGGCTTTCAGAGGAGCGCGGGAGCAATGGCA 314

QY 354 GCCAGGGCTTGGCCGGGCGCGGATGCGCGGAGCGGCGCGGAGCGGCGGCGGCTCCGG 413
DB 315 GCCAGGGCTTGGCCGGGCGCGGATGCGCGGAGCGGCGCGGAGCGGCGGCGGCTCCGG 374

QY 414 GAGAGAAAGCGAGGCGGAGAGGCGGAGCTGCGGGAGCCTCGAGGGAGACCCCGGCGCG 473
DB 375 GAGAGAAAGCGAGGCGGAGAGGCGGAGCTGCGGGAGCCTCGAGGGAGACCCCGGCGCG 433

QY 474 GAGAGAGGCGGAGACCCCGGCGGCGGAGCGGCGGAGCTGCGGGAGGCTGCGGCTCCGG 533
DB 434 GAGAGAGGCGGAGACCCCGGCGGCGGAGCGGCGGAGCTGCGGGAGGCTGCGGCTCCGG 493

QY 534 GATCCGCTTTCAGCGGAGCGGCTCCGAGAGCGGAGGCTGCGGCTGCTGAGAGCACTT 593
DB 494 GATCCGCTTTCAGCGGAGCGGCTCCGAGAGCGGAGGCTGCGGCTGCTGAGAGCACTT 553

QY 594 TGCCCTTTCAGCGGAGCTGAGTGAACGAGAGGAGCATTACGAGCGGCTGACCGGAGAGT 653
DB 554 TGCCCTTTCAGCGGAGCTGAGTGAACGAGAGGAGCATTACGAGCGGCTGACCGGAGAGT 613

QY 654 TCACCTGCAAGTGCCTGCGGCTTACTACTTTCGCGTCAATGCGCTTACCGGAGCA 713
DB 614 TCACCTGCAAGTGCCTGCGGCTTACTACTTTCGCGTCAATGCGCTTACCGGAGCA 673

QY 714 GCCTGCAATTTATCTGAGTGAAGAAATGCGGAAATTCATTCGCTTCTTCCAGTTTTCG 773
DB 674 GCCTGCAATTTATCTGAGTGAAGAAATGCGGAAATTCATTCGCTTCTTCCAGTTTTCG 733

QY 774 GGGGGTGGCCCAAGCGAGCGCTGCTCTCGGGGGGGGCGCAATGAGAGGCTGAGCCTGAGG 833
DB 734 GGGGGTGGCCCAAGCGAGCGCTGCTCTCGGGGGGGGCGCAATGAGAGGCTGAGCCTGAGG 793

QY 834 ACCAAGTGGGTGCAAGTGGGTGTTGGGTGATCAATTTGGCATCTATGCGAGCATCAAGA 893
DB 794 ACCAAGTGGGTGCAAGTGGGTGTTGGGTGATCAATTTGGCATCTATGCGAGCATCAAGA 853

QY 894 CAGACAGACCTTCTCGGATTTCTGAGTGAACGAGTGAACGAGTGAACGAGTGAACGAGT 953
DB 854 CAGACAGACCTTCTCGGATTTCTGAGTGAACGAGTGAACGAGTGAACGAGTGAACGAGT 913

QY 954 CTTAGTGCCTCACTGCAAGTGAAGTCAATGCTCATCTCTAGAGAGAGGTTGAGAGCTG 1013
DB 914 CTTAGTGCCTCACTGCAAGTGAAGTCAATGCTCATCTCTAGAGAGAGGTTGAGAGCTG 973

QY 1014 ACAACCAAGTCACTGCAAGAGGCTGCGCCCTGGAATATTTGAAATGACTAGGAGGTG 1073
DB 974 ACAACCAAGTCACTGCAAGAGGCTGCGCCCTGGAATATTTGAAATGACTAGGAGGTG 1033

QY 1074 GGGTAGAGCACTGCGGCTGCTGCTGCTGCGGAGAGAAATGGAACAGTGGCTGCTGCGAGTC 1133
DB 1034 GGGTAGAGCACTGCGGCTGCTGCTGCTGCGGAGAGAAATGGAACAGTGGCTGCTGCGAGTC 1093

QY 1134 AGGTGCGAGCATGAGGAGCATGAGTGTGATTTTTCGCAAGACAGAGAGTGTGCTG 1193
DB 1094 AGGTGCGAGCATGAGGAGCATGAGTGTGATTTTTCGCAAGACAGAGAGTGTGCTG 1153

QY 1194 CTGGCAAGTGAATGCTCCCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1253
DB 1154 CTGGCAAGTGAATGCTCCCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1213

QY 1254 CTTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1313
DB 1214 CTTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1273

QY 1314 TCTCAGAGATCACTCAATAAAGAACCTTCCTCAAAAAAAAAAAAAAAAAAAAA 1368
DB 1274 TCTCAGAGATCACTCAATAAAGAACCTTCCTCAAAAAAAAAAAAAAAAAAAAA 1328

RESULT 11
AAFA4999
ID AAFA4999 standard; cDNA; 1338 BP.
XX

AC AAF44999;
 XX 28-MAR-2001 (first entry)
 XX
 DT Human secreted protein related coding sequence SEQ ID NO: 105.
 DE
 XX
 XX
 KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KM INTERCEPT 258; coronary disorder; olfactory disorder;
 KM neurological disorder; pulmonary disorder; immunological disorder;
 KM developmental disorder; kidney disorder; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO200078808-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 19-JUN-2000; 2000MO-US16883.
 XX
 PR 18-JUN-1999; 99US-0336536.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Leiby KR, McKay C, Boscone S;
 XX
 DR WPI; 2001-050109/06.
 XX
 XX New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma -
 XX
 PS Disclosure; Page 272; 332pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 CC
 CC
 SO Sequence 1338 BP; 229 A; 422 C; 460 G; 227 T; 0 other;
 Query Match 94.0%; Score 1295; DB 22; Length 1338;
 Best Local Similarity 99.5%; Pred. No. 2e-229;
 Matches 1309; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 474 GAGAGAGGCGGAGCCCGCGGGCCCAACCGGAGCTGCGGGAGTGTCTCGTCTCCGC 533
 DB 434 GAGAGAGGCGGAGCCCGCGGGCCCAACCGGAGCTGCGGGAGTGTCTCGTCTCCGC 493
 QY 534 GATCCGCTTTCAGCGCCAGCGCTCCGAGAGCGGGTGTCTCCGCGCTTGAAGCACCT 593
 DB 494 GATCCGCTTTCAGCGCCAGCGCTCCGAGAGCGGGTGTCTCCGCGCTTGAAGCACCT 553
 QY 594 TGCCTTTCAGCGCGGTGTGTGAAGAGAGGAGCTTTCAGAGCGCGTCAACCGGAGT 653
 DB 554 TGCCTTTCAGCGCGGTGTGTGAAGAGAGGAGCTTTCAGAGCGCGTCAACCGGAGT 613
 QY 654 TCACTTCAGAGTCCCTGCGGGTCTACTACTTCCGCTTCATAGCACCGTCAACCGGAG 713
 DB 614 TCACTTCAGAGTCCCTGCGGGTCTACTACTTCCGCTTCATAGCACCGTCAACCGGAG 673
 QY 714 GCTTCAGATTGATCTGTGTGAAGATGCGAATTCATTCCTCTTTCATGATTTCG 773
 DB 674 GCTTCAGATTGATCTGTGTGAAGATGCGAATTCATTCCTCTTTCATGATTTCG 733
 QY 774 GGGGTGTGCGCCAGCGCTCTGCGGGGGGGGCGCATGTGAGGCTGAGAGCTGAGG 833
 DB 734 GGGGTGTGCGCCAGCGCTCTGCGGGGGGGGCGCATGTGAGGCTGAGAGCTGAGG 793
 QY 834 ACCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 893
 DB 794 ACCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 853
 QY 894 CAGACAGACCTTTCCTCGGATTTCTGTGTACTCCGATGCGACAGCTCCCACTTTG 953
 DB 854 CAGACAGACCTTTCCTCGGATTTCTGTGTACTCCGATGCGACAGCTCCCACTTTG 913
 QY 954 CTTAGTGTGCGCCAGCGCTCTGCGGGGGGGGCGCATGTGAGGCTGAGAGCTGAGG 1013
 DB 914 CTTAGTGTGCGCCAGCGCTCTGCGGGGGGGGCGCATGTGAGGCTGAGAGCTGAGG 973
 QY 1014 ACAACAGGCTATCCAGAGAGGCTGAGCGCCCTCGAATATTGAAATGACTAGAGAGTG 1073
 DB 974 ACAACAGGCTATCCAGAGAGGCTGAGCGCCCTCGAATATTGAAATGACTAGAGAGTG 1033
 QY 1074 GGGTAGAGCATCTCCGCTCTGCTGTGTGAGAGAAATGAGACAGATGTGTGCGATC 1133
 DB 1034 GGGTAGAGCATCTCCGCTCTGCTGTGTGAGAGAAATGAGACAGATGTGTGCGATC 1093
 QY 1134 AGGTCTGAGAGCATGAGGAGGCTGAGATTTCTGCCAAGACAGAGAGTGTGCTGTG 1193
 DB 1094 AGGTCTGAGAGCATGAGGAGGCTGAGATTTCTGCCAAGACAGAGAGTGTGCTGTG 1153
 QY 1194 CTGCAAGTGTAGTCCCGCATGTTGCTGTGTGCTCAAGAGCCCAAGTGTGAGTGTCTCT 1253
 DB 1154 CTGCAAGTGTAGTCCCGCATGTTGCTGTGTGCTCAAGAGCCCAAGTGTGAGTGTCTCT 1213
 QY 1254 CTTGTCTCTGTCTTCTGTGTATCTCCCAACCCCTCTGCTGTGTGAGGCGCGGCTTT 1313
 DB 1214 CTTGTCTCTGTCTTCTGTGTATCTCCCAACCCCTCTGCTGTGTGAGGCGCGGCTTT 1273
 QY 1314 TCTCAGAGATCACTCAATTAACCTAAGAACCCCTCATTAATAAAAAAAAAAAAAA 1368
 DB 1274 TCTCAGAGATCACTCAATTAACCTAAGAACCCCTCATTAATAAAAAAAAAAAAAA 1328

RESULT 12
 AAF45000
 ID AAF45000 standard; cDNA; 1338 BP.
 AC AAF45000;
 XX
 DT 28-MAR-2001 (first entry)
 XX
 DE Human secreted protein related coding sequence SEQ ID NO: 107.
 XX
 KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;

AAS76911
 ID AAS76911 standard; cDNA; 1082 BP.
 AC AAS76911;
 DT 13-FEB-2002 (first entry)
 DE DNA encoding novel human diagnostic protein #12715.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KM food supplement; medical imaging; diagnostic; genetic disorder; ss.
 XX
 OS Homo sapiens.
 XX
 PN M0200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 PI
 XX
 DR WPI: 2001-639362/73.
 DR P-PSDB; ABG12724.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensic, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity
 XX
 PS Claim 1; SEQ ID No 12715; 103bp; English.
 XX
 XX The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensic, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS64197-AAS94564 represent novel human
 CC diagnostic coding sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SO Sequence 1082 BP; 193 A; 334 C; 353 G; 202 T; 0 other;
 QY
 Query Match 67.1%; Score 923.6; DB 23; Length 1082;
 Best Local Similarity 96.5%; Pred. No. 4,4e-161;
 Matches 1042; Conservative 0; Mismatches 24; Indels 14; Gaps 9;
 Db 299 CCAGGCTCTGCCCCGGGAGCCCGGCTTCCAGGCAAGCCGGGCAACATGCGACGCG 358
 1 CCAGGCTCTGCCCCGGGAGCCCGGCTTCCAGGCAAGCCGGGCAACATGCGACGCG 60
 QY 359 GGCTTGCAGGAGCGCGATGCGCGAGCGCGCGCGAGCGCGCGCGCGGAGCTCCGGAGAG 418
 61 GGCTTGCAGGAGCGCGATGCGCGAGCGCGCGCGAGCGCGCGCGCGGAGCTCCGGAGAG 120

QY 419 AAGGCGAGGCGCGGAGCGCGGAGCTGCGGGAATCTCGAGGAGACCCCGGCGCGAGAG 478
 121 AAGGCGAGGCGCGGAGCGCGGAGCTGCGGGAATCTCGAGGAGACCCCGGCGCGAGAG 180
 QY 479 GAGCGGAGACCCCGGAGGCGCAACCGGAGCTGCGGAGGAGTGTCTCGGTCCTCGGATTC 538
 181 GAGCGGAGACCCCGGAGGCGCAACCGGAGCTGCGGAGGAGTGTCTCGGTCCTCGGATTC 240
 QY 539 GCCCTTACGCGCAAGCGCTCCGAGAGCGGAGTCCCGCGCTTGAACGCAACCTTGCACC 598
 241 GCCCTTACGCGCAAGCGCTCCGAGAGCGGAGTCCCGCGCTTGAACGCAACCTTGCACC 300
 QY 599 TTGACCGGAGTGTGTGAACGAGAGGAGCAATTAGAGCCGCTACCGGCAAGTTTCAAC 658
 301 TTGACCGGAGTGTGTGAACGAGAGGAGCAATTAGAGCCGCTACCGGCAAGTTTCAAC 360
 QY 659 TGCCAGGTCCTGGGCTCTACTTCTGCGGTCAGTCCAGCGCTTACCGGCGAGCGCTG 718
 361 TGCCAGGTCCTGGGCTCTACTTCTGCGGTCAGTCCAGCGCTTACCGGCGAGCGCTG 420
 QY 719 CAGTTTGAATCTGTGAAGAAATGCGAATTCATTTGCTCTTTCGATTTTTCGAGGAG 778
 421 CAGTTTGAATCTGTGAAGAAATGCGAATTCATTTGCTCTTTCGATTTTTCGAGGAG 480
 QY 779 TTGCCCCAAGCGCGCTCTGCGGAGGAGGAGCAATGATGAGGCTGAGGCTTGAAGACCA 838
 481 TTGCCCCAAGCGCGCTCTGCGGAGGAGGAGCAATGATGAGGCTGAGGCTTGAAGACCA 540
 QY 839 GTGTGGGTCAGGTGGTGTGTGTGACTATTTGCGATCTTATGCGAGATCAAGACAGAC 898
 541 GTGTGGGTCAGGTGGTGTGTGTGACTATTTGCGATCTTATGCGAGATCAAGACAGAC 600
 QY 899 AGCACTTCTCGGATTTCTGTGTGTAATCCAGTGG---CAGAGTCCCGAGCTTTTGT 955
 601 AGCACTTCTCGGATTTCTGTGTGTAATCCAGTGGCACTCCCGAGCTTTTGTAGCT 660
 QY 956 TAGTGCC--ACTGCAAGTGAAGTCAATGCTCTC--ACTGCAAGTGAAGTGAAGTGAAGCT 1012
 661 TAGTGCCCACTGCAAGTGAAGTCAATGCTCTC--ACTGCAAGTGAAGTGAAGTGAAGCT 720
 QY 1013 GACAAACAGATCATCC--AGAGAGGCTGGCCCCCTGGAATATTGTGAATGACTAGGAGAG 1071
 721 GACAAACAGATCATCC--AGAGAGGCTGGCCCCCTGGAATATTGTGAATGACTAGGAGAG 780
 QY 1072 T--GGGTATGAGCACTCTCC--GTCTGCTGTGTGCAAGGAAT--GGAAACAGTGGCTGT 1127
 781 TTGGGGGTATGAGCACTCTCC--GTCTGCTGTGTGCAAGGAAT--GGAAACAGTGGCTGT 840
 QY 1128 GCGATCAGGTCTGGAGAGATGGAGGAGTGGCTGATTTCTGCCCCAAGACCAAGAGAGGT 1187
 841 GCGATCAGGTCTGGAGAGATGGAGGAGTGGCTGATTTCTGCCCCAAGACCAAGAGAGGT 900
 QY 1188 GCTGTGCTGGCAAG--TGTAGTCCCGCAGTTGCTCTGTGTCAGAGAGCCAGGTGGAGTG 1246
 901 GCTGTGCTGGCAAGTGTGTAGTCCCGCAGTTGCTCTGTGTCAGAGAGCCAGGTGGAGTG 960
 QY 1247 CTCTCTTCTGTGCTCTGCTTCTTGTGATCTCTCCACCCCTCTCTCTCTGAGGCTG 1306
 961 CTCTCTTCTGTGCTCTGCTTCTTGTGATCTCTCCACCCCTCTCTCTCTGAGGCTG 1020
 QY 1307 GCCCTTTTCTCA--GAGATCACTCAATTAAGACCTCATTAAGAAAAA 1364
 1021 GCCCTTTTCTCAAGATTCACCTCAATTAAGACCTCATTAAGAAAAA 1080

Search completed: June 20, 2003, 06:55:51
 Job time : 353 secs

Qy	4	CGCAGGAGGCAACCAAGACCTGGGCTACGACAGGAGAGGGGGGCGCTGGCCCGGAGGA	99
Db	11	CGAGAGGAGGCAACCAAGACTGGGGGTACCGACAGGAGAGGGGGCGCTGGCCCGGAGGA	70
Qy	100	AGCGCGGGGGCTGGAGACACCACTGAGGGGTCCGAGTAGGAGAGCGCCCGAGAGAG	15
Db	71	AGCGCGGGGGCTGGAGACACCACTGAGGGGTCCGAGTAGGAGAGCGCCCGAGAGAG	13
Qy	160	GGCATTGGGAGACCCGGAGAGGGGGACTGCGAGAGGACCCCGGGCTCGGGGCTCCGGTGC	218
Db	131	GGCATTGGGAGAGCCCGAGAGGGGGACTGCGAGAGGACCCCGGGCTCGGGGCTCCGGTGC	190
Qy	220	CAGCGCTATGAGGGCACTCTTCGTCTTCGCTCTCTCTGAGGCTTGGCGGCGGAGCTGCCCC	279
Db	191	CAGCGCTATGAGGGCACTCTTCGTCTCTCTCTCTCTGAGGCTTGGCGGCGGAGCTGCCCC	250
Qy	280	ACTGAGCGACCAAGAGTCCCAAGCTTTCGCGCCGGGGACCCCGGGCTTCCAGGCAAGCC	339
Db	251	ACTGAGCGACCAAGAGTCCCAAGCTTTCGCGCCGGGGACCCCGGGCTTCCAGGCAAGCC	310
Qy	340	GGGCGCACTGGCAGCCAGGGCTTTCGCGGGCTCGAGTAGCCGCGCAGCGCCCGGCGGCTC	399


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Db      311 GGGCCACCATGCGAGCCAGAGGCTTGCCTGGGCGCGCATGCGCCGCGACGCGCCGCGAGCGC 370
Oy      400 GCCCGGGGCTCCGGGAGAGAAAGCGAGGCGGGAGCGGGAGCTGCGGGAGCTTCGAGG 459
Db      371 GCCCGGGGCTCCGGGAGAGAAAGCGAGGCGGGAGCGGGAGCTGCGGGAGCTTCGAGG 430
Oy      460 GGAACCCCGGGGCGGGAGAGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGGAGTG 519
Db      431 GGAACCCCGGGGCGGGAGAGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGGAGTG 490
Oy      520 CTCGGGCTCCGGGAGAGAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 579
Db      491 CTCGGGCTCCGGGAGAGAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 550
Oy      580 GTCGAGCGACCTTCCTCCCTTCGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 639
Db      551 GTCGAGCGACCTTCCTCCCTTCGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 610
Oy      640 GGTACCGGGAGAGTTCAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 699
Db      611 GGTACCGGGAGAGTTCAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 670
Oy      700 GGTACCGGGAGAGTTCAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 759
Db      671 GGTACCGGGAGAGTTCAGCGGGAGCGGGAGCGGGAGCGGGAGCGGGAGCTTCGAGG 730
Oy      760 CTTCCAGTTTTCGGGGGGGGGGCGCGAGCGCGCTTCGCGGGGGGGGGCGATGGTAG 819
Db      721 CTTCCAGTTTTCGGGGGGGGGGCGCGAGCGCGCTTCGCGGGGGGGGGCGATGGTAG 790
Oy      820 GCTGAGAGCTTGAAGACCAAGTGTGGTGAAGTGTGGTGTGGTGTGGTGTGGTGTGGT 879
Db      791 GCTGAGAGCTTGAAGACCAAGTGTGGTGAAGTGTGGTGTGGTGTGGTGTGGTGTGGT 850
Oy      880 TGGCAGCATCAAGACAGACAGACCTTTCGCGAGTTTCTGCTGTGCTGCACTGCGAG 939
Db      851 TGGCAGCATCAAGACAGACAGACCTTTCGCGAGTTTCTGCTGTGCTGCACTGCGAG 910
Oy      940 CTTCCAGTTTTCGGGGGGGGGGCGCGAGCGCGCTTCGCGGGGGGGGGCGATGGTAG 999
Db      911 CTTCCAGTTTTCGGGGGGGGGGCGCGAGCGCGCTTCGCGGGGGGGGGCGATGGTAG 970
Oy      1000 AGGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1059
Db      971 AGGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1030
Oy      1060 TGAATAAGGAGGAGTGGAGTGAAGCACTTCGCTGTGCTGTGCTGTGCTGTGCTGTG 1119
Db      1031 TGAATAAGGAGGAGTGGAGTGAAGCACTTCGCTGTGCTGTGCTGTGCTGTGCTGTG 1090
Oy      1120 GAGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1179
Db      1091 GAGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1150
Oy      1180 AGGAGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1239
Db      1151 AGGAGTGTGAGGCTGACCAACAGAGTCAATCAAGAGGAGTGGCGCGCGCGCGAGATGGTAG 1210
Oy      1240 TGGGAGTGTGCTCTTCCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1299
Db      1211 TGGGAGTGTGCTCTTCCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1270
Oy      1300 GGGGCGGGGCTTTTCTCAGAGATCACTCAATTAACCTTAAGAACCTCATTAAGAACCT 1359
Db      1271 GGGGCGGGGCTTTTCTCAGAGATCACTCAATTAACCTTAAGAACCTCATTAAGAACCT 1330
Oy      1360 AAAAAA 1366
Db      1331 AAAAAA 1337

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RESULT 2
US-09-336-536-1

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; Sequence 1, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1338
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-336-536-1

Query Match      94.2%; Score 1296.6; DB 4; Length 1338;
Best Local Similarity 99.6%; Pred. No. 7,76-252;
Matches 1310; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Oy      54 CCAAGACTGGGAGTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 113
Db      15 CCGGAGCTGGGAGTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 74
Oy      114 AGCACCACTGAAGGAGTCCGAGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 173
Db      75 AGCACCACTGAAGGAGTCCGAGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 134
Oy      174 GGGAGGGGAGGAGTCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 233
Db      135 GGGAGGGGAGGAGTCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 194
Oy      234 CACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 293
Db      195 CACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 254
Oy      294 AGATCCCGAGCTTGCCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 353
Db      255 AGATCCCGAGCTTGCCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 314
Oy      354 GCCAGGCTTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 413
Db      315 GCCAGGCTTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 374
Oy      414 GAGAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 473
Db      375 GAGAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 433
Oy      474 GAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 533
Db      434 GAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 493
Oy      534 GATCCGCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 593
Db      494 GATCCGCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 553
Oy      594 TGCCCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 653
Db      554 TGCCCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 613
Oy      654 TCACTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 713
Db      614 TCACTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 673
Oy      714 GCTGAGAGTGTGAGTGTGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 773
Db      674 GCTGAGAGTGTGAGTGTGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 733
Oy      774 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 833
Db      734 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 793

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QY 309 GCCCGGGGCAACCCGGCTTTCAGGACGCGGGCCACATGAGCAGCGGCTTTCGG 368
 Db 217 GTCCCGGGGAGCCCGGCTTTCAGGACGCGGGCCACATGAGCAGCGGCTTTCGG 276
 QY 369 GCCCGCATGCGCGGAGCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 428
 Db 277 GCCGTGACCGGCGGTGAGCGCGGAGCGGTGACCGCGGCGCGCGCGCGCGCGCG 336
 QY 429 GCCGAGAGCGCGGAGCTGCGGAGCCTTGAGGAGGAGCGCGGCGCGCGCGCGCG 488
 Db 337 GCGGAGAGCGCGGAGCTGCGGAGCCTTGAGGAGGAGCGCGGCGCGCGCGCGCG 396
 QY 489 CCGCGGGGCG 548
 Db 397 CCATGCGGGGCTATCGGGGCTGCGGGGAGGTCTGGTACCGCCGAGCATGAGCTT 456
 QY 549 CCAAGCGCTCGGAGAGCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 608
 Db 457 CCAAGCGATCCGAGAGCGCGGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 516
 QY 609 TGCCTGGAAG 668
 Db 517 TGCCTGGAAG 576
 QY 669 CTGCGGCTTACTACTTTCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 728
 Db 577 CTGCGGCTTACTACTTTCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 636
 QY 729 TGGTGAAG 788
 Db 637 TTGTCAAAAAG 696
 QY 789 CAGCCTGCTCTGCGGGGGGGGGCGAGTGTGAGAGCTGAGAGCTGAGAGCAAGTGTG 848
 Db 697 CAGCCTGCTCTGAGGGGGGGGGCGAGTGTGAGAGCTGAGAGCAAGTGTG 756
 QY 849 AGGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 908
 Db 757 AGGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 816
 QY 909 CCGGATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 968
 Db 817 CCGGATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 876
 QY 969 AAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1028
 Db 877 ACCCGAGCTGGGACCTTGTCTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 936
 QY 1029 AGAGAGGCTGGGCG 1088
 Db 937 CAGAGAGGCTGGGCG 995
 QY 1089 CGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1148
 Db 996 AGTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1049
 QY 1149 GAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1208
 Db 1050 GAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1108
 QY 1209 CCCCCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1265
 Db 1109 C-----CTGGCGCGAGACTTCAAGGTGGAGTGTCTCATTTCTGCTGCTGCTG 1157
 QY 1266 CTTCCTGAGTCTCCCAACCCCTCTGCTCTGCGGCGCGGCGCGCTTTCAGAGATCA 1325
 Db 1158 CCTCTAGGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1217
 QY 1326 CTGATTAAGCTGAAG 1361
 Db 1218 CTTAATTAAGCTGAAG 1253

RESULT 5
 US-09-188-930-218
 ; Sequence 218, Application us/09188930A
 ; Patent No. 6150502
 ; GENERAL INFORMATION:
 ; APPLICANT: Watson, James D.
 ; APPLICANT: Strachan, Lorna
 ; APPLICANT: Sleeman, Matthew
 ; APPLICANT: Omutet, Rene
 ; APPLICANT: Murison, James Greg
 ; TITLE OF INVENTION: Compositions isolated from skin cells
 ; TITLE OF INVENTION: and Methods for Their Use
 ; FILE REFERENCE: 11000.1011c1
 ; CURRENT APPLICATION NUMBER: US/09/188,930A
 ; CURRENT FILING DATE: 1998-11-09
 ; NUMBER OF SEQ ID NOS: 348
 ; SOFTWARE: PasteSeq for Windows Version 3.0
 ; SEQ ID NO 218
 ; LENGTH: 1001
 ; TYPE: DNA
 ; ORGANISM: Rat
 ; US-09-188-930-218

 Query Match 44.0%; Score 606; DB 3; Length 1001;
 Best Local Similarity 78.6%; Pred. No. 2.7e-113;
 Matches 739; Conservative 0; Mismatches 195; Indels 6; Gaps 1;

 QY 66 TGAACGAGAGGAG 125
 Db 31 TGTCAAG 90
 QY 126 TGAAGAGTCCGAGAGTACGAGCGCCCGAAGAGAGCCATCGAGAGAGAGAGAGAG 185
 Db 91 GTCTAG 150
 QY 186 TG-----CGAG 239
 Db 151 AGACTACAAAG 210
 QY 240 TGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 299
 Db 211 TGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 270
 QY 300 CAGGCTTCTGCGCGGAG 359
 Db 271 CAGGCTTCTGCGCGGAG 330
 QY 360 GCTTTCGCGGCGCGAG 419
 Db 331 GCTTTCGCGGCGCGAG 390
 QY 420 AAGGAG 479
 Db 391 AAGGAG 450
 QY 480 AGGCGGAG 539
 Db 451 AGGCGGAG 510
 QY 540 CTTTCAAGGCGCAAG 599
 Db 511 CTTTCAAGGCGCAAG 570
 QY 600 TGAACGAG 659
 Db 571 TGAACGAG 630
 QY 660 GCTAG 719
 Db 631 GCTAG 690
 QY 720 AGTTGATCTGAG 779

	Query Match	43.9%;	Score 605;	DB 3;	Length 1015;	
	Best Local Similarity	78.5%;	Pred. No. 4,3e-113;			
	Matches 738;	Conservative	0;	Mismatches 196;	Indels 6;	Gaps 1
QY	66	TGACGGCAGGCGAGGGGGCGCTTCGGCCGGGGGAGAAAGCGGGGGGCTGTGAGCACCACCAAC	125			
Db	45	TGTGAGCGAGGGCAGGGGCTGCTGTGGTTGGGGTAGAGTGGAGCAGGGGCTCAGCAGAGG	104			
QY	126	TGGAGGTCCTCGAGTAGCGAGCGCCCCGAAAGGAGCCATCGGGGAGCCCGGAGGGGGGAC	185			
Db	105	GTCTGAGGAAACCAATTCAAAGCGACAGCTGGGAGAGCTGGGAGGCCGGGAAAGGGGCTAC	164			
QY	186	TG-----CGAGAGACCCCGGGGCTTCGGGGCTCCGGGTACACCGCTATGAGGCCACTCC	239			
Db	165	AGACTTACAAAGAGAGATCTTGCGCGTCTGGGCTCTCTGGGTATCACCACATGAGGCCCACTTC	224			
QY	240	TGCTCTGCTGCTCTCCTGGAGGCTGGGGGCGCGGCTGGCCCCCATGAGACGACCAAGATCC	299			
Db	225	TTCGCTGCTGCTTCTTGGGTCTGGGATCAGGGCTTCTCTCTTGGACGACCAAGATCC	284			
QY	300	CCAGGCTTGCCTCCGGGGGACCTCCGGCTTTCAGGACGCGGGGCCAACATGGCAGCCAGG	359			
Db	285	CCAGCTGTGTCCTCCGGGCGAGCCCGGCTCTCCAGGACACCAAGGCCACCAAGGAGCCAGG	344			
QY	360	GCTTGGCGGGGCGCGATGGGCGGCGACCGGCGGAGAGGCGCGGCCCGGGGCTTCGGGGAGAGA	419			
Db	345	GCTGCTCCGTGGCGGTACCGAGCGGTATGAGCGCGGAGCGTACACCCGAGGCTTCGGGGAGAGA	404			

Oy	227	ATGAGGCACTCTGTCTGTGTCCTGAGGACCTGAGCGAGCGGCTGACCCCACTGAA	286
Db	1	ATGAGGCACTCTGTGTCCTGTGTCGAGGCTGAGGTACAGGCTCTCTCTCTGAC	60
Oy	287	GACACAGATCCCAAGCTCTGCGCCGAGGACCCCGAGCTTCCAGGACGCGGCGAC	346
Db	61	GACACAGATCCCAAGCTGTGTCCCGAGCGAGCCGAGCTTCCAGGACACCAAGGTAC	120

NAME/KEY: modified base
LOCATION: all "n" positions
OTHER INFORMATION: n=a, c, g, or t
US-09-336-536-74

Query Match 18.7%; Score 257.8; DB 4; Length 601;
Best Local Similarity 72.0%; Pred. No. 1.8e-43;
Matches 365; Conservative 0; Mismatches 134; Indels 8; Gaps 2;

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QY 66 TCACGGCAGGCGCAGGGGGGCGCTGCGCGGAGAGACCGCGGGGCTGAGACACCAAC 125
DB 196 TGTCAAGCAGAGGCGAGGGGCTGCTGTGGGTGAGAGAGAGGCGCAGAGAGAG 155
QY 126 TGAAGGGTCCGAGTAGAGCGCCCGAGAGAGCCATCGGGAGACCGGAGGGGGAGC 185
DB 156 GTCTGAGGAAGCATTCAAGGAGAGAGAGCTGGGAGAGCTGGGAGAGCGGAGAGGCTTAC 215
QY 186 TG-----CGAGAGACCCCGGGGCTCGCGGCTCCCGGTGCAGCGCTATAGGCCACTCC 239
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QY 240 TCGTCTGCTGCTCTCGGGCTGAGGCGCGGCTGCGCGCCCACTGAGACCAAGATCC 299
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DB 336 CCAGCCTGTGTCCCGGAGAGCCCGGCTCCAGAGCAGCAGAGCCAGCAGAGCAG 395
QY 360 GCTTGGCGGGCGCGCATGAGCGCGGAGCGCGGAGCGCGCGCGGGGCTTCGGAGAGA 419
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DB 456 AAGCGAGAGGCGGAGAGCGCGGAGCTGCGCGGAGCGCGGAGCGCGGAGCGGAGAG 515
QY 480 AAGCGAGAGCGCGCGGGGCGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGGAGAG 539
DB 516 AAGCGAGAGCGCGCGGGGCGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGGAGAG 573
QY 540 CCTTCAAGCGCGCAAGCGCTCCGAGAGCC 566
DB 574 GCTTCAAGTCCAGAGCGATCAAGAAAGCC 600
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RESULT 10

US-09-188-930-26
Sequence 26, Application US/09188930A

Patent No. 6150502
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Orniet, Rene
TITLE OF INVENTION: Compositions Isolated From Skin Cells
FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 26
LENGTH: 393
TYPE: DNA
ORGANISM: Rat
US-09-188-930-26

Query Match 10.9%; Score 149.6; DB 3; Length 393;
Best Local Similarity 69.1%; Pred. No. 8.6e-22;
Matches 250; Conservative 0; Mismatches 104; Indels 8; Gaps 3;

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DB 33 TGTCAAGCAGAGGCGAGGGGCTGCTGTGGGTGAGAGAGAGGCGCAGAGAGAG 92
QY 126 TGAAGGGTCCGAGTAGAGCGCCCGAGAGAGCCATCGGGAGACCGGAGGGGGAGC 185
DB 93 GTCTGAGGAAGCATTCAAGGAGAGAGAGCTGGGAGAGCTGGGAGAGCGGAGAGGCTTAC 152
QY 186 TG-----CGAGAGACCCCGGGGCTCGCGGCTCCCGGTGCAGCGCTATAGGCCACTCC 239
DB 153 AGACTACAGAGAGAGATCTGGGCGCTCGGGCTCTCGGGTCAATCAATGAGGCCACTTC 212
QY 240 TCGTCTGCTGCTCTCGGGCTGAGGCGCGGCTGCGCGCCCACTGAGACCAAGATCC 299
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QY 300 CCAAGCTCTGCGCGGAGACCCCGGCTTCAGAGCAGCGCGGAGCAGATGAGCAGAG 359
DB 273 CCAGCCTGTGTCCCGGAGAGCCCGGCTCCAGAGCAGCAGAGCCAGCAGAGCAG 332
QY 360 GCTTGGCGGGCGCGCATGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGGAGAGA 419
DB 333 GCTTGGCTGCGCGCGTGAAGCGCC-TGATGGCGCGAGCGTGCACCCGAG-TCCGGAGAGA 390
QY 420 AA 421
DB 391 AA 392
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RESULT 11

US-08-463-911-1
Sequence 1, Application US/08463911

Patent No. 5869330

GENERAL INFORMATION:

APPLICANT: Scherer, Philipp E.

APPLICANT: Lodish, Harvey F.

TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED

TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Millitia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA: US/08/463,911

FILING DATE:

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Granahan, Patricia

REGISTRATION NUMBER: 32,227

REFERENCE/DOCKET NUMBER: WHI95-05

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 861-6240

TELEFAX: (617) 861-9540

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1276 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

FEATURE:

NAME/KEY: CDS

LOCATION: 46..786

US-08-463-911-1

Query Match 6.6%; Score 90.6; DB 2; Length 1276;
 Best Local Similarity 51.5%; Pred. No. 7.3e-10;
 Matches 316; Conservative 0; Mismatches 279; Indels 18; Gaps 4;

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DB 290 AGACAGAGAGATGTTGAGATGACAGAGAGCGCGCGCGCGCGCGCGCGCGCGCG 349
QY 513 GCGAGTGTCTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 568
DB 350 GCAGGAGAGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 409
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RESULT 12
 US-08-463-911-6
 Sequence 6, Application US/08463911
 Patent No. 5869330

GENERAL INFORMATION:
 APPLICANT: Scherer, Philipp E.
 APPLICANT: Lodish, Harvey F.
 TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED
 TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
 STREET: Two Millitia Drive
 CITY: Lexington
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02173
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/463,911
 FILING DATE:
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Granahan, Patricia
 REGISTRATION NUMBER: 32,227
 REFERENCE/DOCKET NUMBER: WHI95-05
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 861-6240
 TELEFAX: (617) 861-9540
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1313 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 73..804
 US-08-463-911-6

Query Match 6.0%; Score 82.2; DB 2; Length 1313;
 Best Local Similarity 50.1%; Pred. No. 3.6e-08;
 Matches 316; Conservative 0; Mismatches 303; Indels 12; Gaps 4;

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QY 501 CGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 560
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QY 561 AAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 620
DB 431 AGACTTACGTTACTATCC--CCACATGCGCGCGCGCGCGCGCGCGCGCGCG 487
QY 621 AGCAGGAGCATTAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 680
DB 488 AGCAAAACCATTAAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 547
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DB 548 ACTTGGCTTACCATCAATCAAGTCTATATGAGAGATGAGAGCGCGCGCGCGCG 607
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DB 785 TTCTCTACCATGACCAATGATCACT 815

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RESULT 13
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GenCore version 5.1.6
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(without alignments)
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Searched: 1042519 seqs, 733713590 residues

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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27	1377	100.0	1377	9	US-10-123-261-361	Sequence 361, App
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36	1377	100.0	1377	9	US-10-160-498-361	Sequence 361, App
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ALIGNMENTS

RESULT 1
US-09-944-413-41
Sequence 41, Appl, Application US/09944413
Patent No. US20020156004A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillen, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 413
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997

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DB 1141 GCAGCATGGGAGTGGCTGATTTCTGCCCAAGACAGAGTGTCTGTGGCAA 1200
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QY 1261 CTCTGCTTCTGTGAATCTCCCACTCTGCTGTGGGCGGCGCTTTCTGAGA 1320
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RESULT 2
US-09-944-403-41
Sequence 41, Application US/09944403
Patent No. US20020165143A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlt, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,403
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
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PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092

PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 41
LENGTH: 1377
TYPE: DNA
ORGANISM: Homo Sapien
US-09-944-403-41

Query Match 100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GACTAGTCTCTGTGAGTCTGGAGAGGAAAGCGGCGAGGAGGAAACCGAGAC 60
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Db	901	CACCTTCTCGGGATTTCTGTGTACTCCGACTGCGACAGCTCCCCAGCTTTTGGCTTAAGTG	960
Oy	961	CCCACTGGAAGTGAAGTCAATGCTCTCACTCTTAGAAGAGGGTGTAGGCTGCACACCA	1020
Db	961	CCCACTGGAAGTGAAGTCAATGCTCTCACTCTTAGAAGAGGGTGTAGGCTGCACACCA	1020
Oy	1021	GATATATCAGAGAGGCTGGCCCCCTGGAAATATTGTGAATGACTAGAGGATGGGGGTAGA	1080
Db	1021	GATATATCAGAGAGGCTGGCCCCCTGGAAATATTGTGAATGACTAGAGGATGGGGGTAGA	1080
Oy	1081	GCACTCTCCGCTCTGCTGCTGGCAAGAAATGGGAAACAATGCTGTCTTGCAATCAGGTCTG	1140
Db	1081	GCACTCTCCGCTCTGCTGCTGGCAAGAAATGGGAAACAATGCTGTCTTGCAATCAGGTCTG	1140
Oy	1141	GCAGCATGGGGCAATGGGCTGTGAATTTCTGCCCAAGACCGAGAGATGTCTGTCTGGGCA	1200
Db	1141	GCAGCATGGGGCAATGGGCTGTGAATTTCTGCCCAAGACCGAGAGATGTCTGTCTGGGCA	1200
Oy	1201	GTTGTAAGTCCCCCAATTGCTGTGCTGCTCAAGAGCCACAGGTGGGGTCTCTCTTCCTGGTTC	1260
Db	1201	GTTGTAAGTCCCCCAATTGCTGTGCTGCTCAAGAGCCACAGGTGGGGTCTCTCTTCCTGGTTC	1260
Oy	1261	CTTGCTTCTCTGGAATCTCTCCCAAGCCCTCTGCTCTGCGGGCCGAGCCCTTTTCTCAGA	1320
Db	1261	CTTGCTTCTCTGGAATCTCTCCCAAGCCCTCTGCTCTGCGGGCCGAGCCCTTTTCTCAGA	1320
Oy	1321	GATCATCTCAATTAACCTTAAGAACCTCTATTAATAAAAAAAAAAAAAAAAAAAAAA	1377
Db	1321	GATCATCTCAATTAACCTTAAGAACCTCTATTAATAAAAAAAAAAAAAAAAAAAAAA	1377

RESULT 6

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/ SEQ ID NO 41
/
/ Sequence 41, Application US/09944929
/ Publication No. US20020197612A1
/
/ GENERAL INFORMATION:
/
/ APPLICANT: Baker, Kevin
/ APPLICANT: Batstein, David
/ APPLICANT: Baton, Dan
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Gerritsen, Mary
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul
/ APPLICANT: Grimaldi, Christopher
/ APPLICANT: Gurney, Austin
/ APPLICANT: Hillan, Kenneth
/ APPLICANT: Kljavin, Ivar
/ APPLICANT: Napier, Mary
/ APPLICANT: Roy, Margaret
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Wood, William
/
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P2548P1C1
/ CURRENT APPLICATION NUMBER: US/09/944, 929
/ CURRENT FILING DATE: 2001-08-31
/ PRIOR APPLICATION NUMBER: 09/866, 028
/ PRIOR FILING DATE: 2001-05-25
/
/ NUMBER OF SEQ ID NOS: 120
/

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; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-944-929-41

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Query Match	Score	DB	Length
Best Local Similarity	Pred. No.	0	
100.0%	1377	9	1377
100.0%			

	Matches	1377;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
OY	1	GA	CTAGTTCTTCTTGAGATCTGGAGGAGAAAGCGAGCCGACAGGAGCGCAACAGAGC	60						
Dd	1	GACTAGTTCTTCTTGAGATCTGGAGGAGAAAGCGAGCCGACAGGAGCGCAACAGAGC	60							
OY	61	TGGGGTACCGCACGGGCAGGGGGGGGACCTGGCCGGGGGAGAAAGCCGCGGGGGCTGGAGACA	120							
Dd	61	TGGGGTACCGCACGGGCAGGGGGGGGACCTGGCCGGGGGAGAAAGCCGCGGGGGCTGGAGACA	120							
OY	121	CCAATTGAGAGGTTCGGAGTAGCGAGGCCCCCGAAGAGGCAATCGGAGAACCGGAGAGG	180							
Dd	121	CCAATTGAGAGGTTCGGAGTAGCGAGGCCCCCGAAGAGGCAATCGGAGAACCGGAGAGG	180							
OY	181	GGGACTGCGAGAGAGACCCTCGGCGCTCCCGGGTCCAGGCGCTTAGAGGCCCATCTCT	240							
Dd	181	GGGACTGCGAGAGAGACCCTCGGCGCTCCCGGGTCCAGGCGCTTAGAGGCCCATCTCT	240							
OY	241	CGTCTCTGCTCTCTTGAGGACTGGGCGGCGGCGCTCGCCCCCACTGAGACAACAAGATCCC	300							
Dd	241	CGTCTCTGCTCTCTTGAGGACTGGGCGGCGGCGCTCGCCCCCACTGAGACAACAAGATCCC	300							
OY	301	CAGCTTCTGCTCCGGGAGACCCCGGCTTTCAGAGCAGCCCGGACCAATGACAGCCAGGG	360							
Dd	301	CAGCTTCTGCTCCGGGAGACCCCGGCTTTCAGAGCAGCCCGGACCAATGACAGCCAGGG	360							
OY	361	CTTGGCCGGGGCCGAGATGGCCGCGACCGGCCCGAGCGCGCCCGGGGCTCCGGGAGAGA	420							
Dd	361	CTTGGCCGGGGCCGAGATGGCCGCGACCGGCCCGAGCGCGCCCGGGGCTCCGGGAGAGA	420							
OY	421	AGGCGAGGGCGGAGAGCCGGAGCTGCCGGGACCTCGAGGGAGCCCGGGCCGACAGAGA	480							
Dd	421	AGGCGAGGGCGGAGAGCCGGAGCTGCCGGGACCTCGAGGGAGCCCGGGCCGACAGAGA	480							
OY	481	GGCGGGACCCGCGGGGGCCACCCGGGCTTGC CGGGAGATGCTCCGGTGCCTCCGCGATCCG	540							
Dd	481	GGCGGGACCCGCGGGGGCCACCCGGGCTTGC CGGGAGATGCTCCGGTGCCTCCGCGATCCG	540							
OY	541	CTTGAAGGCGCAAGGCGCTCCGAGAGCCGGGGTGCCTCCGCGCTGACGCAACCTTGCCCTT	600							
Dd	541	CTTGAAGGCGCAAGGCGCTCCGAGAGCCGGGGTGCCTCCGCGCTGACGCAACCTTGCCCTT	600							
OY	601	CGACCGCGTGTGTGTGAACGAGCAGGAGCATTTACGACGCGGTACCCGCAAGTTCACTTG	660							
Dd	601	CGACCGCGTGTGTGTGAACGAGCAGGAGCATTTACGACGCGGTACCCGCAAGTTCACTTG	660							
OY	661	CCAGGTGCTGGGGTCTACTACTTCCGCGTCAATGSCACGCTTACCGGGCCAGCTTGA	720							
Dd	661	CCAGGTGCTGGGGTCTACTACTTCCGCGTCAATGSCACGCTTACCGGGCCAGCTTGA	720							
OY	721	GTTTGATCTGTGTGAAGATGTGCGAATCAATTGCCCTCTTCTTCAGATTTTTCGGGGGTGT	780							
Dd	721	GTTTGATCTGTGTGAAGATGTGCGAATCAATTGCCCTCTTCTTCAGATTTTTCGGGGGTGT	780							
OY	781	GCCCAACCGAGCTCCGCTCCGGGGGGGGCCCATGTGAGGCTGAGGCTGAGGACCAAGT	840							
Dd	781	GCCCAACCGAGCTCCGCTCCGGGGGGGGCCCATGTGAGGCTGAGGCTGAGGACCAAGT	840							
OY	841	GTGGGTGACAGGTGGGTGTGGGTGTACTATTGGCATCTATGCGACATCAAGACAGACAG	900							
Dd	841	GTGGGTGACAGGTGGGTGTGGGTGTACTATTGGCATCTATGCGACATCAAGACAGACAG	900							
OY	901	CACCTTCTCCGGATTTCTGTGTACTCCGATGTGACAGCTCCACAGCTTTGTCTTAATGTG	960							
Dd	901	CACCTTCTCCGGATTTCTGTGTACTCCGATGTGACAGCTCCACAGCTTTGTCTTAATGTG	960							
OY	961	CCCACTGCAAAGTAGCTATGCTCTCACTCTTAGAAGAGGGTGTGAGGCTGACCAACA	1020							
Dd	961	CCCACTGCAAAGTAGCTATGCTCTCACTCTTAGAAGAGGGTGTGAGGCTGACCAACA	1020							
OY	1021	GGTATCTCAGAGAGGCGTGGCCCCCTCTGGAAATATTGTGAATGACTAGGAGGTGGGTATGA	1080							
Dd	1021	GGTATCTCAGAGAGGCGTGGCCCCCTCTGGAAATATTGTGAATGACTAGGAGGTGGGTATGA	1080							

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1 PRIOR FILING DATE: 1997-10-17
2 PRIOR APPLICATION NUMBER: 60/062287
3 PRIOR FILING DATE: 1997-10-17
4 PRIOR APPLICATION NUMBER: 60/062814
5 PRIOR FILING DATE: 1997-10-24
6 PRIOR APPLICATION NUMBER: 60/062816
7 PRIOR FILING DATE: 1997-10-24
8 PRIOR APPLICATION NUMBER: 60/063045
9 PRIOR FILING DATE: 1997-10-24
10 PRIOR APPLICATION NUMBER: 60/063082
11 PRIOR FILING DATE: 1997-10-31
12 PRIOR APPLICATION NUMBER: 60/063127
13 PRIOR FILING DATE: 1997-10-24
14 PRIOR APPLICATION NUMBER: 60/063327
15 PRIOR FILING DATE: 1997-10-27
16 PRIOR APPLICATION NUMBER: 60/063329
17 PRIOR FILING DATE: 1997-10-27
18 PRIOR APPLICATION NUMBER: 60/063550
19 PRIOR FILING DATE: 1997-10-28
20 PRIOR APPLICATION NUMBER: 60/063561
21 PRIOR FILING DATE: 1997-10-28

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US-10-028-072-361

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

1	PRIOR FILING DATE: 1997-10-29
2	PRIOR APPLICATION NUMBER: 60/063755
3	PRIOR FILING DATE: 1997-10-17
4	PRIOR APPLICATION NUMBER: 60/064248
5	PRIOR FILING DATE: 1997-11-03
6	PRIOR APPLICATION NUMBER: 60/064809
7	PRIOR FILING DATE: 1997-11-07
8	PRIOR APPLICATION NUMBER: 60/065186
9	PRIOR FILING DATE: 1997-11-12
10	PRIOR APPLICATION NUMBER: 60/065846
11	PRIOR FILING DATE: 1997-11-17
12	PRIOR APPLICATION NUMBER: 60/066364
13	PRIOR FILING DATE: 1997-11-21
14	PRIOR APPLICATION NUMBER: 60/066453
15	PRIOR FILING DATE: 1997-11-24
16	PRIOR APPLICATION NUMBER: 60/066511
17	PRIOR FILING DATE: 1997-11-24
18	PRIOR APPLICATION NUMBER: 60/066770
19	PRIOR FILING DATE: 1997-11-24
20	PRIOR APPLICATION NUMBER: 60/069212
21	PRIOR FILING DATE: 1997-12-11
22	PRIOR APPLICATION NUMBER: 60/069278
23	PRIOR FILING DATE: 1997-12-11
24	PRIOR APPLICATION NUMBER: 60/069334
25	PRIOR FILING DATE: 1997-12-11
26	PRIOR APPLICATION NUMBER: 60/069694
27	PRIOR FILING DATE: 1997-12-16
28	PRIOR APPLICATION NUMBER: 60/072320
29	PRIOR FILING DATE: 1998-01-23
30	PRIOR APPLICATION NUMBER: 60/073612
31	PRIOR FILING DATE: 1998-02-04
32	PRIOR APPLICATION NUMBER: 60/074086
33	PRIOR FILING DATE: 1998-02-09
34	PRIOR APPLICATION NUMBER: 60/074092
35	PRIOR FILING DATE: 1998-02-09
36	PRIOR APPLICATION NUMBER: 60/077791
37	PRIOR FILING DATE: 1998-03-12
38	PRIOR APPLICATION NUMBER: 60/078910
39	PRIOR FILING DATE: 1998-03-20
40	PRIOR APPLICATION NUMBER: 60/079294
41	PRIOR FILING DATE: 1998-03-25
42	PRIOR APPLICATION NUMBER: 60/079663
43	PRIOR FILING DATE: 1998-02-27
44	PRIOR APPLICATION NUMBER: 60/079728
45	PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
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PRIOR APPLICATION NUMBER: 60/086414
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086430
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088730
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088741
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090538
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360

PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACTAGTTCTCTGAGTCTGGAGAGAGAAAGCGAGCGGAGGAGGAAACAGAGC 60
1 GACTAGTTCTCTGAGTCTGGAGAGAGAAAGCGAGCGGAGGAGGAAACAGAGC 60
1 GACTAGTTCTCTGAGTCTGGAGAGAGAAAGCGAGCGGAGGAGGAAACAGAGC 60

61 TGGGGTACCGGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
61 TGGGGTACCGGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120

121 CCAACTGAGAGGTCCGAGTACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
121 CCAACTGAGAGGTCCGAGTACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180

181 GGGACTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
181 GGGACTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240

241 GGTCTGCTCTCTCTGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
241 GGTCTGCTCTCTCTGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300

301 CAGCTCTGCTCTCTCTGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
301 CAGCTCTGCTCTCTCTGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360

361 CTTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
361 CTTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420

421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
421 AGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480

481 GGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
481 GGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540

541 CTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
541 CTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600

541 CTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
541 CTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600

601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660

601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
601 GAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660

661 CCAAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
661 CCAAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720

661 CCAAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
661 CCAAGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720

721 GTTTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780
721 GTTTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780

721 GTTTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780
721 GTTTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780

781 GCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
781 GCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840

781 GCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
781 GCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840

841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900

841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900

901 CACCTTCCGAGATTTCTGAGTACCTGAGTGGACAGCTCCCAAGCTTTTGTAGTG 960
901 CACCTTCCGAGATTTCTGAGTACCTGAGTGGACAGCTCCCAAGCTTTTGTAGTG 960

901 CACCTTCCGAGATTTCTGAGTACCTGAGTGGACAGCTCCCAAGCTTTTGTAGTG 960
901 CACCTTCCGAGATTTCTGAGTACCTGAGTGGACAGCTCCCAAGCTTTTGTAGTG 960

QY 961 CCCATGCAAAAGTGAAGTCTATGCTCTCACTCTCTAGAGAGAGGTGTGAGGCTGACAAACCA 1020
DB 961 CCCATGCAAAAGTGAAGTCTATGCTCTCACTCTCTAGAGAGAGGTGTGAGGCTGACAAACCA 1020
QY 1021 GGTTCATCCAGAGAGGCTGGGCCCCCTGTGAATATTGTGAATGACTAGGAGAGTGGGTAGA 1080
DB 1021 GGTTCATCCAGAGAGGCTGGGCCCCCTGTGAATATTGTGAATGACTAGGAGAGTGGGTAGA 1080
QY 1081 GGAATCTCCGCTCTGCTGCTGCAAGGAATGGAACAGTGGCTGTGAGATCAGGCTG 1140
DB 1081 GGAATCTCCGCTCTGCTGCTGCAAGGAATGGAACAGTGGCTGTGAGATCAGGCTG 1140
QY 1141 GGAAGCATGGGGGAGTGGCTGATTTTCTGCCAAGACAGAGAGTGTGCTGCTGCA 1200
DB 1141 GGAAGCATGGGGGAGTGGCTGATTTTCTGCCAAGACAGAGAGTGTGCTGCTGCA 1200
QY 1201 GGTGAAGTCCCGAGTTGCTCTGCTGCTCAAGAGCCACAGTGGGTGCTCTTCTGCTG 1260
DB 1201 GGTGAAGTCCCGAGTTGCTCTGCTGCTCAAGAGCCACAGTGGGTGCTCTTCTGCTG 1260
QY 1261 CTCTGCTCTCTGAGATCTCCCAACCCCTCTGCTCTGAGGCTGGGCTTTTCTGCA 1320
DB 1261 CTCTGCTCTCTGAGATCTCCCAACCCCTCTGCTCTGAGGCTGGGCTTTTCTGCA 1320
QY 1321 GATCACTCAATAAAGCTTAAGAACTCTATAAAAAAAAAAAAAAAAAAAAAAAAAA 1377
DB 1321 GATCACTCAATAAAGCTTAAGAACTCTATAAAAAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 8

US-10-121-049-361

Sequence 361, Application US/10121049

Publication No. US20030022239A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Inc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gunney, Justin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P330R1C17
CURRENT APPLICATION NUMBER: US/10/121,049
CURRENT FILING DATE: 2002-04-12
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 361
LENGTH: 1377
TYPE: DNA
ORGANISM: Homo Sapien
US-10-121-049-361

Query Match 100.0%; Score 1377; DB 9; Length 1377;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTAGTCTCTTGTGAGTCTGAGAGAGAAAGCGAGCGCGAGGAGGAGCAACAGAC 60
DB 1 GACTAGTCTCTTGTGAGTCTGAGAGAGAAAGCGAGCGCGAGGAGGAGCAACAGAC 60

QY 61 TGGGTGACGCGAGGCGAGGCGCTGCGCGGGGAGAGCGCGGGGCTGAGACCA 120
DB 61 TGGGTGACGCGAGGCGAGGCGCTGCGCGGGGAGAGCGCGGGGCTGAGACCA 120
QY 121 CCACTGAGAGGCTCCGAGATGAGCGGCGCGGAGAGGAGGAGGAGGAGGAGG 180
DB 121 CCACTGAGAGGCTCCGAGATGAGCGGCGCGGAGAGGAGGAGGAGGAGGAGG 180
QY 181 GGAAGTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
DB 181 GGAAGTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY 241 GGTCTGCTGCTCTGAGGCTGAGGCGGCTGCGCCCACTGAGAGCAAGATCCC 300
DB 241 GGTCTGCTGCTCTGAGGCTGAGGCGGCTGCGCCCACTGAGAGCAAGATCCC 300
QY 301 GAGCTCTGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
DB 301 GAGCTCTGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
QY 361 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAG 420
DB 361 CTTCGCGGAGCGGAGATGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAG 420
QY 421 AGGCGAGGCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
DB 421 AGGCGAGGCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
QY 481 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
DB 481 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
QY 541 CTTCGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
DB 541 CTTCGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
QY 601 CGAAGCGGCTGCTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
DB 601 CGAAGCGGCTGCTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
QY 661 CCAAGGCTGCTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
DB 661 CCAAGGCTGCTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
QY 721 GTTGAATCTGTAAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
DB 721 GTTGAATCTGTAAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
QY 781 GCCAAGCGAGGCTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 781 GCCAAGCGAGGCTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
QY 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
DB 841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
QY 901 CACTCTCCGAGATTTCTGCTGACTCCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
DB 901 CACTCTCCGAGATTTCTGCTGACTCCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
QY 961 CCCATGCAAAAGTGAAGTCTATGCTCTCACTCTCTAGAGAGAGGTGTGAGGCTGCAACCA 1020
DB 961 CCCATGCAAAAGTGAAGTCTATGCTCTCACTCTCTAGAGAGAGGTGTGAGGCTGCAACCA 1020
QY 1021 GGTTCATCCAGAGAGGCTGGGCCCCCTGTGAATATTGTGAATGACTAGGAGAGTGGGTAGA 1080
DB 1021 GGTTCATCCAGAGAGGCTGGGCCCCCTGTGAATATTGTGAATGACTAGGAGAGTGGGTAGA 1080
QY 1081 GGAATCTCCGCTCTGCTGCTGCAAGGAATGGAACAGTGGCTGTGAGATCAGGCTG 1140
DB 1081 GGAATCTCCGCTCTGCTGCTGCAAGGAATGGAACAGTGGCTGTGAGATCAGGCTG 1140
QY 1141 GGAAGCATGGGGGAGTGGCTGATTTTCTGCCAAGACAGAGAGTGTGCTGCTGCA 1200

DB 1141 GCAGCATGCGGCGATGCTGAGATTTCTGCCCAAGACAGAGAGATGCTGCTGCGGCA 1200
QY 1201 GTGTAGTCCCGCAGTTGCTCTGCTCAGAGAGCCGAGGAGGCTCTCTTCTGCTGTC 1260
DB 1201 GTGTAGTCCCGCAGTTGCTCTGCTCAGAGAGCCGAGGAGGCTCTCTTCTGCTGTC 1260
QY 1261 CTCTGCTTCTCTGATCTCTCCCAAGCCCTCTGCTCTGAGGCGGAGCCCTTTCTCAGA 1320
DB 1261 CTCTGCTTCTCTGATCTCTCCCAAGCCCTCTGCTCTGAGGCGGAGCCCTTTCTCAGA 1320
QY 1321 GATCACTCAATAAAGCTTAAGACCTCTATATAAAAAAAAAAAAAAAAAAAAAA 1377
DB 1321 GATCACTCAATAAAGCTTAAGACCTCTATATAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 9

US-10-123-904-361
; Sequence 361, Application US/10123904
; Publication No. US20030022328A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Mei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1CS4
; CURRENT APPLICATION NUMBER: US/10/123,904
; PRIORITY FILING DATE: 2002-04-16
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 361
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-904-361

Query Match 100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCCGCGAGAGGACCAACAGAGC 60
DB 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCCGCGAGAGGACCAACAGAGC 60
QY 61 TGGGGTGAAGCGAGGCGAGGCGGCGCTGCGCGGAGAAAGCGCGGAGCTGAGACCA 120
DB 61 TGGGGTGAAGCGAGGCGAGGCGGCGCTGCGCGGAGAAAGCGCGGAGCTGAGACCA 120
QY 121 CCAACTGAGGAGTCCGAGATGACGAGCGCCCGAAGAGAGGACCATGCGGAGAGCG 180
DB 121 CCAACTGAGGAGTCCGAGATGACGAGCGCCCGAAGAGAGGACCATGCGGAGAGCG 180
QY 181 GGGAGCTGCGAGAGAGAGCCCGGCGTCCGCGGCTCCCGGTCACAGCGCTATGAGGCTCACTCT 240
DB 181 GGGAGCTGCGAGAGAGAGCCCGGCGTCCCGGCTCCCGGTCACAGCGCTATGAGGCTCACTCT 240
QY 241 GGTCTGCTGCTCTGCGGCGTGGCGGCGGCTGCGCCCACTGAGAGCAACAGATCC 300
DB 241 GGTCTGCTGCTCTGCGGCGTGGCGGCGGCTGCGCCCACTGAGAGCAACAGATCC 300

DB 241 GGTCTGCTGCTCTGCGGCGTGGCGGCGGCTGCGCCCACTGAGAGCAACAGATCC 300
QY 301 CAGCTCTGCGCGGAGACCCCGGCTTTCAGAGCAAGCCGCGGACCATATGACAGCCAGG 360
DB 301 CAGCTCTGCGCGGAGACCCCGGCTTTCAGAGCAAGCCGCGGACCATATGACAGCCAGG 360
QY 361 CTGTCGCGGCGCGGAGTGGCGCGGACCGCGGAGCGGCGGCGGCGGCGGCGGCGGAGAA 420
DB 361 CTGTCGCGGCGCGGAGTGGCGCGGACCGCGGAGCGGCGGCGGCGGCGGCGGCGGAGAA 420
QY 421 AGCGAGAGCGGAGAGGCGGAGCTGCGCGGACCTTGAAGAGAGCCCGGAGCGGAGAGA 480
DB 421 AGCGAGAGCGGAGAGGCGGAGCTGCGCGGACCTTGAAGAGAGCCCGGAGCGGAGAGA 480
QY 481 GCGGAGACCCCGGAGGCGGACCGGAGCTGCGGAGAGTGTCTGCTCGGAGATCCG 540
DB 481 GCGGAGACCCCGGAGGCGGACCGGAGCTGCGGAGAGTGTCTGCTCGGAGATCCG 540
QY 541 CTTCAGCGCGAGGCGCTCCAGAGCGGAGTGTCTCGCGGCTGAGCGGACCTTGCCTT 600
DB 541 CTTCAGCGCGAGGCGCTCCAGAGCGGAGTGTCTCGCGGCTGAGCGGACCTTGCCTT 600
QY 601 CGAGCGGCTGCTGAG 660
DB 601 CGAGCGGCTGCTGAG 660
QY 661 CGAGGCTGCGGAGTCTACTACTTTCGCGGTCAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 661 CGAGGCTGCGGAGTCTACTACTTTCGCGGTCAGAGAGAGAGAGAGAGAGAGAGAGAG 720
QY 721 GTTTGATCTGAG 780
DB 721 GTTTGATCTGAG 780
QY 781 GCCAAGCAGGCTGCTGCGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 781 GCCAAGCAGGCTGCTGCGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
QY 841 GTGGGTGAGGTGGGTGGGTGAGTACTACTTGGAGAGAGAGAGAGAGAGAGAGAGAG 900
DB 841 GTGGGTGAGGTGGGTGGGTGAGTACTACTTGGAGAGAGAGAGAGAGAGAGAGAGAG 900
QY 901 CAGCTCTCGGATTTCTGAGTACTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 901 CAGCTCTCGGATTTCTGAGTACTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
QY 961 CCACTGCAAGAGTACTATGCTCTCACTCTAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 CCACTGCAAGAGTACTATGCTCTCACTCTAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 GGTATCTCAGAGAGGCTGCGCGGCTGGAATTTGTAATGACTAGAGAGAGAGAGAGAG 1080
DB 1021 GGTATCTCAGAGAGGCTGCGCGGCTGGAATTTGTAATGACTAGAGAGAGAGAGAGAG 1080
QY 1081 GCACTCTCGTCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1081 GCACTCTCGTCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
QY 1141 GCAGCATGCGGCGATGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1141 GCAGCATGCGGCGATGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
QY 1201 GTGTAGTCCCGCAGTTGCTCTGCTCAGAGAGCCGAGGAGGCTCTCTTCTGCTGTC 1260
DB 1201 GTGTAGTCCCGCAGTTGCTCTGCTCAGAGAGCCGAGGAGGCTCTCTTCTGCTGTC 1260
QY 1261 CTCTGCTTCTCTGATCTCTCCCAAGCCCTCTGCTCTGAGGCGGAGCCCTTTCTCAGA 1320
DB 1261 CTCTGCTTCTCTGATCTCTCCCAAGCCCTCTGCTCTGAGGCGGAGCCCTTTCTCAGA 1320
QY 1321 GATCACTCAATAAAGCTTAAGACCTCTATATAAAAAAAAAAAAAAAAAAAAAA 1377
DB 1321 GATCACTCAATAAAGCTTAAGACCTCTATATAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 10

US-10-140-470-361

; Sequence 361, Application US/10140470
; Publication No. US2003022331A1

; GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C160
CURRENT APPLICATION NUMBER: US/10/140,470
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 361
LENGTH: 1377
TYPE: DNA
ORGANISM: Homo Sapien
US-10-140-470-361

Query Match

100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCGAGCGGAGAGCGAAACGAGAC 60
DB 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCGAGCGGAGAGCGAAACGAGAC 60
QY 61 TGGGCTGACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
DB 61 TGGGCTGACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY 121 CCAACTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
DB 121 CCAACTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
QY 121 CCAACTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
DB 121 CCAACTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
QY 181 GGGAGTGGAG 240
DB 181 GGGAGTGGAG 240
QY 241 GGTCTGCTGCTCTCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 GGTCTGCTGCTCTCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 241 GGTCTGCTGCTCTCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 GGTCTGCTGCTCTCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 301 CAGGCTGAGCGCGGAG 360
DB 301 CAGGCTGAGCGCGGAG 360
QY 361 CTTCGCGGAGCGGAG 420
DB 361 CTTCGCGGAGCGGAG 420
QY 421 AGGCGAG 480
DB 421 AGGCGAG 480

QY 481 GGGGAGAGCGCGGAG 540
DB 481 GGGGAGAGCGCGGAG 540
QY 541 CTTCGCGGAGCGGAG 600
DB 541 CTTCGCGGAGCGGAG 600
QY 601 CAGCGGAG 660
DB 601 CAGCGGAG 660
QY 661 CAGGAG 720
DB 661 CAGGAG 720
QY 721 GTTGTATCTGAG 780
DB 721 GTTGTATCTGAG 780
QY 781 GCGGAG 840
DB 781 GCGGAG 840
QY 841 GTGGGAG 900
DB 841 GTGGGAG 900
QY 901 CACCTTCTCGGAG 960
DB 901 CACCTTCTCGGAG 960
QY 961 CCGAG 1020
DB 961 CCGAG 1020
QY 1021 GGTATCTGAG 1080
DB 1021 GGTATCTGAG 1080
QY 1081 GCACTCTCGGAG 1140
DB 1081 GCACTCTCGGAG 1140
QY 1141 GCGAG 1200
DB 1141 GCGAG 1200
QY 1201 GTGTAAGTCCCGAG 1260
DB 1201 GTGTAAGTCCCGAG 1260
QY 1261 CTCTGCTCTCTGAG 1320
DB 1261 CTCTGCTCTCTGAG 1320
QY 1321 GATCACTCAATTAACCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377
DB 1321 GATCACTCAATTAACCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377

RESULT 11

US-10-175-746-361

; Sequence 361, Application US/10175746
; Publication No. US2003027270A1

; GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.

CURRENT FILING DATE: 2002-06-20
 Prior Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 361
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-10-176-918-361

Query Match 100.0%; Score 1377; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCGGAGCGAGACCAAGAC 60
DB 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCGGAGCGAGACCAAGAC 60
QY 61 TGGGGTGAACGGAGGCAAGGGGCGCTGGCGGAGAGAGCGCGGGGCTGAGACCA 120
DB 61 TGGGGTGAACGGAGGCAAGGGGCGCTGGCGGAGAGAGCGCGGGGCTGAGACCA 120
QY 121 CCAACTGAGAGGTCGAGATACGAGAGCGCCCGAAGAGAGCCATCGGGAGCGCGGAGG 180
DB 121 CCAACTGAGAGGTCGAGATACGAGAGCGCCCGAAGAGAGCCATCGGGAGCGCGGAGG 180
QY 181 GGGAGCTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GGGAGCTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 GTCCTCTGCTCTCTGGGCTTGGCGGCGGCTGCGCCCACTGAGAGAGAGAGAG 300
DB 241 GTCCTCTGCTCTCTGGGCTTGGCGGCGGCTGCGCCCACTGAGAGAGAGAGAG 300
QY 301 CAGCCTCTGCGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
DB 301 CAGCCTCTGCGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
QY 361 CTTGGCGGGCGCGAGATGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
DB 361 CTTGGCGGGCGCGAGATGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
QY 421 AGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
DB 421 AGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
QY 481 GGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
DB 481 GGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
QY 541 CTTGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
DB 541 CTTGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
QY 601 CGACCGCGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
DB 601 CGACCGCGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
QY 661 CCAAGGTCCTGGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 661 CCAAGGTCCTGGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
QY 721 GTTGTATCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 721 GTTGTATCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
QY 781 GCCCAAGCAGAGCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 781 GCCCAAGCAGAGCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
QY 841 GTGGGTGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
DB 841 GTGGGTGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900

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QY 901 CACTTCTCCGAGATTTCTGAGTACTCCGAGATGCGAGAGAGAGAGAGAGAG 960
DB 901 CACTTCTCCGAGATTTCTGAGTACTCCGAGATGCGAGAGAGAGAGAGAGAG 960
QY 961 CCACTGCAAGTGAAGTCACTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 CCACTGCAAGTGAAGTCACTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 GGTATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
DB 1021 GGTATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
QY 1081 GCACTCTCCGCTCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1081 GCACTCTCCGCTCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
QY 1141 GCAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1141 GCAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
QY 1201 GTGTAACTCCCGCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
DB 1201 GTGTAACTCCCGCACTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
QY 1261 CTCTGCTCTCTGAGTCTCTCCCAAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
DB 1261 CTCTGCTCTCTGAGTCTCTCCCAAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
QY 1321 GATCACTCAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377
DB 1321 GATCACTCAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377

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RESULT 13

US-10-176-921-361
 Sequence 361, Application US/10176921
 Publication No. US20030027276A1

GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: Deforge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerlitsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P33301C288
 CURRENT APPLICATION NUMBER: US/10/176,921
 CURRENT FILING DATE: 2002-06-20
 Prior Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 361
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Homo Sapien
 US-10-176-921-361

Query Match 100.0%; Score 1377; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCGGAGCGGAGAGAGAGAGAG 60

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Db      1081 GCACCTCCCGCTGCTCTGCTGCAAGGAATGGGAACAAGTGCGCTGTCTGCAATCAAGCTGTG 1144
QY      1141 GCACCAATGGGGCAATGAGGTGGATTTTCTGCCCCAAGACCAAGAGAGTGTGCTGTGTCGCA 1200
Db      1141 GCAGCAATGGGGCAATGAGGTGGATTTTCTGCCCCAAGACCAAGAGAGTGTGCTGTGTCGCA 1200
QY      1201 GTGTAAATCCCCCAGTTGCTCTGTGTCAGAGACCACGATGGGGTGGCTCTGTCTGTGTC 1266
Db      1201 GTGTAAATCCCCCAGTTGCTCTGTGTCAGAGACCACGATGGGGTGGCTCTGTCTGTGTC 1266
QY      1261 CTGTGCTTCTTGTGATCTCTCCCAACCCCTCTCTGTGTCGAGCCGAGCCCTTTTCTAGA 1320
Db      1261 CTGTGCTTCTTGTGATCTCTCCCAACCCCTCTCTGTGTCGAGCCGAGCCCTTTTCTAGA 1320
QY      1321 GATCACTCAATAAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377
Db      1321 GATCACTCAATAAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 14
US-10-137-865-361
; Sequence 361, Application US/10137865
; Publication No. US20030032155A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Matanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C154
; CURRENT APPLICATION NUMBER: US/10/137,865
; CURRENT FILING DATE: 2002-05-03
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SBO ID NO 361
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-137-865-361

Query Match      100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GACTAGTTCTCTTGAGATCTTGAGAGAGAAACCGAGCCGAGAGGAGCAACCGAGAC 60
Db      1 GACTAGTTCTCTTGAGATCTTGAGAGAGAAACCGAGCCGAGAGGAGCAACCGAGAC 60
QY      61 TGGGGTGAACGGACGAGGGGCGCTGTGACCGGGAGAAACGCGGGGGCTGTGAGACCA 120
Db      61 TGGGGTGAACGGACGAGGGGCGCTGTGACCGGGAGAAACGCGGGGGCTGTGAGACCA 120
QY      121 CCAACTGAGAGGTCCGAGTAGAGCAGCCCGGAGAGAGGCAATGCGGGAGCCGGAGAGG 180
Db      121 CCAACTGAGAGGTCCGAGTAGAGCAGCCCGGAGAGAGGCAATGCGGGAGCCGGAGAGG 180
QY      181 GGGAGCTGCGAAGGACCTCCGGGCTCCGGGCTCCCGGTGCACAGCGCTATAGAGCCACTCT 240
Db      181 GGGAGCTGCGAAGGACCTCCGGGCTCCGGGCTCCCGGTGCACAGCGCTATAGAGCCACTCT 240

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Db 421 AGGCGAGGGGCGGAGGCGGAGCTGCGGAGCTCGAGGGAGCCCGGGCCGCGAGGAGA 480
QY 481 GGGCGGAGCCCGCGGGGCCACCGGGGCTGCGGGGAGTGCTGGGTGCTCCGCGATCCGC 540
Db 481 GGGCGGAGCCCGCGGGGCCACCGGGGCTGCGGGGAGTGCTGGGTGCTCCGCGATCCGC 540
QY 541 CTTGAGCGGCGAGGCTCTCGAGAGCCGGGTGCTCCGCGTCTGACGCACTTGCCCTT 600
Db 541 CTTGAGCGGCGAGGCTCTCGAGAGCCGGGTGCTCCGCGTCTGACGCACTTGCCCTT 600
QY 601 CGACCGGCTGCTGGTGAAGAGGAGGAGCATTTAGAGCGCGCTCAACCGGCAAGTTCACTG 660
Db 601 CGACCGGCTGCTGGTGAAGAGGAGGAGCATTTAGAGCGCGCTCAACCGGCAAGTTCACTG 660
QY 661 CCAGGTGCTGGGGTCTACTACTTCCCGCTCATGCAACCGCTTACCGGGCCAGCTGCA 720
Db 661 CCAGGTGCTGGGGTCTACTACTTCCCGCTCATGCAACCGCTTACCGGGCCAGCTGCA 720
QY 721 GTTGATCTGGTGAAGATGCGCAATCAATGCTCTTCTTCCAGTTTTCGCGGGGTG 780
Db 721 GTTGATCTGGTGAAGATGCGCAATCAATGCTCTTCTTCCAGTTTTCGCGGGGTG 780
QY 781 GCCCAAGGCGAGCTCTGCTCGGGGGGGGCGCATGGGTAGGCTGAGAGCTGAGGACCAAGT 840
Db 781 GCCCAAGGCGAGCTCTGCTCGGGGGGGGCGCATGGGTAGGCTGAGAGCTGAGGACCAAGT 840
QY 841 GTGGGTGAGGGTGGGTGGGTGACTACATTGGCACTATGCGAGCATCAAGACAGCAG 900
Db 841 GTGGGTGAGGGTGGGTGGGTGACTACATTGGCACTATGCGAGCATCAAGACAGCAG 900
QY 901 CACCTTCCGGGATTTCTGGGTACTCCGACTGGCAAGCTCCCAAGTCTTGTCTAGTG 960
Db 901 CACCTTCCGGGATTTCTGGGTACTCCGACTGGCAAGCTCCCAAGTCTTGTCTAGTG 960
QY 961 CCACTGCAAGAGTGAAGTCACTCACTCTAGAGAGGGGTGAGGCTGACAACA 1020
Db 961 CCACTGCAAGAGTGAAGTCACTCACTCTAGAGAGGGGTGAGGCTGACAACA 1020
QY 1021 GGTATCCAGAGGGGCTGGGCTCCCTGGAAATTTGTGAATGACTAGGAGGTGGGTAGA 1080
Db 1021 GGTATCCAGAGGGGCTGGGCTCCCTGGAAATTTGTGAATGACTAGGAGGTGGGTAGA 1080
QY 1081 GCACCTTCCGCTCTGCTGCTGGCAAGAAATGGGAAACAGTGGCTGTGCGATCAGGTCTG 1140
Db 1081 GCACCTTCCGCTCTGCTGCTGGCAAGAAATGGGAAACAGTGGCTGTGCGATCAGGTCTG 1140
QY 1141 GCAGCATGGGGCAGTGGCTGGAATTTCTGCCAAGACAGAGAGTGTGCTGCTGCA 1200
Db 1141 GCAGCATGGGGCAGTGGCTGGAATTTCTGCCAAGACAGAGAGTGTGCTGCTGCA 1200
QY 1201 GTGTAAGTCCCGCAGTGGCTGTGCTCGAGAGCCCAAGTGGGTGCTCTTCTGCTGTC 1260
Db 1201 GTGTAAGTCCCGCAGTGGCTGTGCTCGAGAGCCCAAGTGGGTGCTCTTCTGCTGTC 1260
QY 1261 CTGCTTCTCTGGAATCTTCCCAACCCCTCTGCTCTGCTGCTGCTGCTGCTGCTGCA 1320
Db 1261 CTGCTTCTCTGGAATCTTCCCAACCCCTCTGCTCTGCTGCTGCTGCTGCTGCTGCA 1320
QY 1321 GATCACTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377
Db 1321 GATCACTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377

Search completed: June 20, 2003, 11:21:48
Job time : 228 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 20, 2003, 06:26:42 ; Search time 1901 Seconds

(without alignments)
11731.292 Million cell updates/sec

Title: US-09-944-403-41

Perfect score: 1377
Sequence: 1 gactgctctctctgagctc.....aaaaaaaaaaaaaaaaaa 1377

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 809774376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: 'gb_ges:*
18: em_ges_hum:*
19: em_ges_inv:*
20: em_ges_pln:*
21: em_ges_vrt:*
22: em_ges_fun:*
23: em_ges_mam:*
24: em_ges_mus:*
25: em_ges_other:*
26: em_ges_pro:*
27: em_ges_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	767.8	55.8	869 13	BI763193 603049929
2	750.6	54.5	1154 13	BM547549 AGENCOURT
3	732.8	53.2	1093 14	BM924569 AGENCOURT
4	730.2	53.0	846 13	BI458455 603198837
5	712.6	51.8	801 13	BI490880 603031867
6	672.2	48.8	724 13	BI771879 603055280

7	671	48.7	1045	14	BM920874
8	660.4	48.0	792	13	BI770921
9	641.8	46.6	887	13	BI490062
10	631	45.8	1623	14	BM926477
11	607.2	44.1	630	12	BM970609
12	596	43.3	596	14	BM893587
13	586.4	42.6	586	13	BM544255
14	583.2	42.4	941	13	BI821899
15	578	42.0	578	14	BM893691
16	577.2	41.9	879	13	BI820945
17	572.4	41.6	574	13	BM021127
18	554	40.2	870	9	AF451167
19	551.4	40.0	553	12	BF882978
20	532	38.6	532	12	BF724241
21	521	37.8	521	14	BM966810
22	517	37.5	517	14	BM966954
23	507.8	36.9	574	10	AM150070
24	507.6	36.9	844	10	BE309370
25	489.4	35.5	567	13	BM021381
26	479	34.8	778	12	BF098614
27	463.4	33.7	867	13	BI818537
28	457.4	33.2	1349	9	BM673882
29	453.2	32.9	702	12	BF053285
30	452.4	32.9	454	9	AI805087
31	448.4	32.6	462	10	AM070344
32	440.2	32.0	445	14	BM673416
33	438.4	31.8	842	13	BI688017
34	426.4	31.0	449	13	BM668611
35	424.4	30.8	442	14	BM693336
36	423.4	30.7	548	12	BF906443
37	421.6	30.6	630	12	BF046067
38	409.8	29.8	413	9	AI083823
39	408.4	29.7	410	14	BM707291
40	405.4	29.4	408	9	AI085548
41	402.4	29.2	405	9	AI083824
42	395.6	28.7	547	12	BE722922
43	394.6	28.7	936	12	BF540263
44	392	28.5	392	10	BE138819
45	387.2	28.1	392	10	AM192716

ALIGNMENTS

RESULT 1
BI763193 869 bp mRNA linear EST 25-SEP-2001
LOCUS 603049929F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5190222 5'
DEFINITION mRNA sequence.
ACCESSION BI763193
VERSION BI763193.1 GI:15754771
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hautoleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 869)
AUTHORS NIH-MGC http://mgi.mgi.nih.gov/
TITLES National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
http://image.llnl.gov
Plate: L14M1475 row: 1 column: 07
High quality sequence stop: 777.
Location/Qualifiers

FEATURES
source

1. 869

Query Match	55.8%;	Score 767.8;	DB 13;	Length 869;
Best Local Similarity	97.7%;	Pred. No. 7.9e-96;		
Matches 853; Conservative	0;	Mismatches 12;	Indels 8;	Gaps 7;

Df		720	CITGTTAAGAAATGGCAACCTCATTGGGTCC-TTCTTCGAAGTTTAACGGGSGGTGCACC--AA	776
Oy		788	CGACGCTCGCTCTCGGgggsggcctcattgttgagcgcttgaacccaagtgttgtgtg	847
Dd		777	GCCAGGCTCGCTCTCGGgggsggcctatgtgttagccctgataggaccaagtgtgtgtg	836
Oy		848	CAGTGCGGTG-TCGGGTGACTACAATTGGCATCTA	879
Dd		837	CAGTGTGTGTGTGGGTGACTACGTTGGCACATCTA	869
RESULT 2		BMS47549	1154 bp	mRNA linear EST 20-FEB-2002
LOCUS		BMS47549		
DEFINITION		ABENICOURT_6507694 NIH_MGC_125 Homo sapiens cDNA clone IMAGE:5724522		
ACCESSION		BMS47549		
VERSION		BMS47549.1 GI:18781410		
KEYWORDS		EST.		
SOURCE		human.		
ORGANISM		Homo sapiens Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo. NIH-MGC http://mgc.nci.nih.gov/ National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)		
REFERENCE		Contact: Robert Strausberg, Ph.D. Email: rgs@nih-mail.nih.gov Tissue Procurement: Invitrogen CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E.S. Consortium (LNLML)		
AUTHORS		DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E.S. Consortium/LNLM at: http://image.lnlml.gov Plate: LHAMJ2713 row: 0 column: 19 High quality sequence stop: 591.		
TITLE		Location/Qualifiers		
JOURNAL		1. .1154		
COMMENT		/organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:5724522" /clone_id="NIH_MGC_125" /ab_host="DH10B"		
FEATURES		/note="Organ: ovary (pool of 3); Vector: pCMV-SPORT6; Site 1: EcoRV (destroyed); Site 2: NotI; RNA source pool of three ovaries, from females ranging in age from 38 to 49 yo. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 2.1 kb, insert size range 1-3.5 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 036."		
source				
BASE COUNT		178 a 382 c 401 g 193 t		
ORIGIN				
Query Match		54.5%; Score 750.6; DB 13; Length 1154;		
Best Local Similarity		93.3%; Pred. No. 1.5e+93;		
Matches		818; Conservative 0; Mismatches 54; Indels 5; Gaps 3		
Oy		40 CGGCGAGGAGCGAACCGAGACTGGGGTAGACGGCAGGGGGCGCTGGGCCGGGGAGA	99	
Dd		1 CGGCGAGGAGCGAACCGAGACTGGGGTAGACGGCAGGGGGCGCTGGGCCGGGGAGA	60	
Oy		100 AGCGGGGGGGCTGGAGCACCAACCTGGAGGGGTCCGAGTAGAGCAGGCCCCGAAGAG	159	
Dd		61 AGCGGGGGGGCTGGAGCACCAACCTGGAGGGGTCCGAGTAGAGCAGGCCCCGAAGAG	120	
Oy		160 GCATCGGGAGAGCCGGAGAGGGGGAGACTCGAGAGGAGCCCGGCGTCCGGGCTCCCGGTGC	219	
Dd		121 GCCATCGGGAGAGCCGGAGAGGGGGAGACTCGAGAGGAGCCC GGCGGTCCGGGCTCCCGGTGC	180	

Db 661 CTTAAAGAGAGGCTGAGCTGACACAGGTATCCAGAGGGCTGGGCTCCCTGCA 720

Qy 1050 ATATTGTAAATGACTAGGAGGCTGGGTAGAGACTCTCCGCTCTGCTGGCAAGAA 1109

Db 721 ATATTGTAAATGACTAGGAGGCTGGGTAGAGACTCTCCGCTCTGCTGGCA 780

Qy 1110 TG 1111

Db 781 GG 782

RESULT 4
B1458455 846 bp mRNA linear EST 21-AUG-2001
LOCUS 603198837P1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5278184 5',
DEFINITION mRNA sequence.
ACCESSION B1458455
VERSION B1458455.1 GI:15249111
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 846)
NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
AUTHORS Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgabs-remail.nih.gov
Tissue Procurement: Miklos Palokovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LLM11702 row: j column: 09
High quality sequence stop: 815.

FEATURES
Location/Qualifiers
source
1..846
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5278184"
/clone_lib="NIH_MGC_96"
/tissue_type="hypothalamus"
/lab_host="DH10B"
/note="Organ: brain; Vector: pBluescriptR (modified
pBluescript KS+); Site 1: BamHI; Site 2: SalI-XhoI (GCGAG
); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTTVN-3',
size-selected for average insert size 2.3 kb and
normalized to KOT 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (Carninci, in preparation). Library
constructed by M. Brownstein (NHGRI, National
Institutes of Health). Note: this is a NIH_MGC Library."

BASE COUNT 129 a 271 c 330 g 115 t 1 others

ORIGIN

Query Match 53.0%; Score 730.2; DB 13; Length 846;
Best Local Similarity 96.1%; Pred. No. 1.1e-90;
Matches 803; Conservative 0; Mismatches 24; Indels 9; Gaps 5;

Qy 7 TTCTCTTGGAGCTGGGAGGAGAAAGCGACCGCGAGGAGGACACAGACTGGGCT 66

Db 19 TCGCTTTGAGCTGGGAGGAGAAAGCGAGCGCGAGGAGGACACAGACTGGGCT 78

Qy 67 GACGCGAGGCGAGGCGGCTGGCGCGGAGAAAGCGGCGGCTGGAGACACCACT 126

Db 79 GACGCGAGGCGAGGCGGCTGGCGCGGAGAAAGCGGCGGCTGGAGACACCACT 138

Qy 127 GAGGCGTCCGAGTACGAGGCGGCGGAGGCGGCGGCGGAGGCGGCGGAGCT 186

Db 139 GAGGCGTCCGAGTACGAGGCGGCGGAGGCGGCGGAGGCGGCGGAGGCGGAGCT 198

Qy 187 GCGAGAGAGACCCCGGCTCCCGGCTCCCGGCTCCCGGCTCCCGGCTCCCGGCT 246

Db 199 GCGAGAGAGACCCCGGCTCCCGGCTCCCGGCTCCCGGCTCCCGGCTCCCGGCT 258

Qy 247 GCTGCTCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 306

Db 259 GCTGCTCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 318

Qy 307 CTGCCCCGGGGCAACCCCGGCTTTCCAGGCAAGCCCGGCGCAATGGCAAGCTTGGC 366

Db 319 CTGCCCCGGGGCAACCCCGGCTTTCCAGGCAAGCCCGGCGCAATGGCAAGCTTGGC 378

Qy 367 GGGCGCGATGGCGCGAGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGG 426

Db 379 GGGCGCGATGGCGCGAGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGG 438

Qy 427 GGGCGGAGAGCCCGGCACTGCGGGACTCGAGGGGACCCCGGCGCGGCGGAGAGAGCGG 486

Db 439 GGGCGGAGAGCCCGGCACTGCGGGACTCGAGGGGACCCCGGCGCGGCGGAGAGAGCGG 498

Qy 487 ACCGCGGGGGCCCAACCGGCGCTGCGGGGAGTGTCTCGGTGCTTCGCGATCGCTTCA 546

Db 499 ACCGCGGGGGCCCAACCGGCGCTGCGGGGAGTGTCTCGGTGCTTCGCGATCGCTTCA 557

Qy 547 CGCCAGAGCGCTCCGAGAGCCGGGTCCTCGGCGCGGCTGAGGACACCTTGGCTGACG 606

Db 558 CGCCAGAGCGCTCCGAGAGCCGGGTCCTCGGCGCGGCTGAGGACACCTTGGCTGACG 617

Qy 607 CTGTGTGTGAACGAGAGGAGCAATTACAGAGCGGCTGACCGGCAAGTTCACTT-GCCAG 665

Db 618 CTGTGTGTGAACGAGAGGAGCAATTACAGAGCGGCTGACCGGCAAGTTCACTT-GCCAG 677

Qy 666 TGCCGTGGGGTCTACTGCTGCGCGGTCCATGCAACCGTCTACCGGCGGCGGCGGCTG 725

Db 678 TGCCGTGGGGTCTACTGCTGCGCGGTCCATGCAACCGTCTACCGGCGGCGGCGGCTG 736

Qy 726 ATCTGTGAAGATGCGCAATTCATTCCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 785

Db 737 ATCTGTGAAGATGCGCAATTCATTCCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 792

Qy 786 AGCCAGCTCGCTCTCGGGGGGGCGCATGTGAGGCTGGAGCTGGAGACCAAGTG 841

Db 793 --CAAGCAAGCTCGCTCTCGGGGGGGCATGTGAGGCTGGAGCTGGAGACCAAGTG 846

RESULT 5
B1490880/c 801 bp mRNA linear EST 28-AUG-2001
LOCUS 603031867T1 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5172880 3',
DEFINITION mRNA sequence.
ACCESSION B1490880
VERSION B1490880.1 GI:15330108
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 801)
NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
AUTHORS Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgabs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov

Plate: L1AM11430 row: f column: 17

High quality sequence start: 8
High quality sequence stop: 738.

FEATURES

source

1. 801
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="NIH_MGC_115"
/lab_host="DH10B"
/note="Organ: pooled brain, lung, testis; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male testis, age 69. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.8 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 021. Note: this is a NIH_MGC Library."

BASE COUNT 180 a 251 c 237 g 133 t

ORIGIN

Query Match 51.8%; Score 712.6; DB 13; Length 801;

Best Local Similarity 98.2%; Pred. No. 2.7e-88; Indels 5; Gaps 5;

Matches 773; Conservative 0; Mismatches 9;

527 CCTCCGCGATCCGCTTACG-CGCAAGCCTCCGAGAGCCGGGTGCTCCGCGCTGA 585
Db CCTTCGCGATCCGCTTACGCGGCAAGCGCTCCGAGAGCCGGGTGCTCCGCGCTGA 727
586 CGACCTTTCCTTTCGACCGCGCTGCTGTTGAACGAG-CAGGACATTACGACCGCTCA 644
Db CGACCTTTCCTTTCGACCGCGCTGCTGTTGAACGAGCGGACATTACGACCGCTCA 648
726 CGACCTTTCCTTTCGACCGCGCTGCTGTTGAACGAGCGGACATTACGACCGCTCA 648
645 CCGGC-AGTTACCTGCGCAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 703
Db CCGGCAGAGTTACCTGCGCAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 608
704 TACCGGCGCAGCTGCGATTTGATCT-GGTGAAGATGCGGAATTCATTCCTTTCTT 762
Db TACCGGCGCAGCTGCGATTTGATCTGCGGAAGATGCGGAATTCATTCCTTTCTT 548
607 TACCGGCGCAGCTGCGATTTGATCTGCGGAAGATGCGGAATTCATTCCTTTCTT 548
763 CCGATTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 822
Db CCGATTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 822
547 CCGATTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 488
823 GAGCGCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 882
Db GAGCGCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 428
487 GAGCGCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 428
883 GAGCGCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 942
Db GAGCGCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 427
427 CAGCATTCAGACAGACGACCTTCTCCGATTTCTGTTACTCCGACCTGGCACAGCTC 368
943 CCGAGCTTTCGCTTATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1002
Db CCGAGCTTTCGCTTATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 308
367 CCGAGCTTTCGCTTATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1003
1003 GTGTGAGGCTGACCAACAGGTGATCCAGAGGCTGGCCCCCTGGAATTTGTGATGA 1062
Db GTGTGAGGCTGACCAACAGGTGATCCAGAGGCTGGCCCCCTGGAATTTGTGATGA 248
307 GTGTGAGGCTGACCAACAGGTGATCCAGAGGCTGGCCCCCTGGAATTTGTGATGA 248
1063 CTGAGGAGGTGGGCTGAGGACCTCTCCGCTCTGCTGTGGCAAGAAATGGGAAAGTGGC 1122
Db CTGAGGAGGTGGGCTGAGGACCTCTCCGCTCTGCTGTGGCAAGAAATGGGAAAGTGGC 188
247 CTGAGGAGGTGGGCTGAGGACCTCTCCGCTCTGCTGTGGCAAGAAATGGGAAAGTGGC 188
1123 TGCTCGGATCAGGTCTGCGAGGATGGGCGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1182
Db TGCTCGGATCAGGTCTGCGAGGATGGGCGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCT 187
187 TGCTCGGATCAGGTCTGCGAGGATGGGCGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCT 128
1183 AGTGTGCTGTGCTGCGAAGTGTAGTCCCAAGTTGCTGTGCTGCAAGAGCCCAAGGTGG 1242

Db 127 AGTGTGCTGTGCTGCGAAGTGTAGTCCCAAGTTGCTGTGCTGCTGCTGCTGCTGCTGCT 68

Qy 1243 GGTGCTCTCTCTCTGCTGCTGCTCTCTCTGATCTCTCCACCCCTCTGCTCTGAG 1302

Db 67 GGTGCTCTCTCTCTGCTGCTGCTCTCTCTGATCTCTCCACCCCTCTGCTCTGAG 8

Qy 1303 GCCGGCC 1309

Db 7 GGAGGCC 1

RESULT 6 724 bp mRNA linear EST 25-SEP-2001

LOCUS B1771879 603055280F1 NIH_MGC_122 Homo sapiens cDNA clone IMAGE:5204971 5'

DEFINITION mRNA sequence.

ACCESSION B1771879

VERSION B1771879.1 GI:15763457

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Butheria; Primates; Catarrhini; Homnidae; Homo.

TITLE NIH-MGC http://mgi.nci.nih.gov/

JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgaabs-remail.nih.gov

Tissue Procurement: Life Technologies, Inc.

cDNA Library Preparation: Life Technologies, Inc.

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

plate: L1AM1513 row: c column: 20

High quality sequence stop: 672.

Location/Qualifiers

1. 724

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_lib="NIH_MGC_122"

/lab_host="DH10B"

/note="Organ: pooled lung and spleen; Vector: pCMV-SPORT6;

Site 1: NotI; Site 2: EcoRV (destroyed); RNA source

anonymous pool of 24 week female lung, 16 week female

spleen, and 20-22 week male spleens. Library is oligo-dT

primed and directionally cloned (EcoRV site is destroyed

upon cloning). Average insert size 1.4 kb, insert size

range 1-3 kb. Library is normalized and enriched for

full-length clones and was constructed by C. Gruber

(Invitrogen). Research Genetics tracking code 026. Note:

this is a NIH_MGC Library "

BASE COUNT 176 a 184 c 211 g 152 t 1 others

ORIGIN

Query Match 48.8%; Score 672.2; DB 13; Length 724;

Best Local Similarity 99.4%; Pred. No. 9.2e-83;

Matches 674; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

700 CGTTCACCGGCGCAGCTGCGATTTGATCTGTTGAAGATGGGAATTCATTCCTCTTT 759

Db 2 CGTTCACCGGCGCAGCTGCGATTTGATCTGTTGAAGATGGGAATTCATTCCTCTTT 61

Qy 760 CTTCCAGTTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 819

Db 62 CTTCCAGTTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 121

Qy 820 GCTGAGCCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 879

Db 122 GCTGAGCCTGAGGACCAAGTGTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 181


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Db      241 CGGGGCAACCCGCGCTTCCAGGACAGCCGGGCAACATGAGCAGGAGCTTGCAGGCG 300
Qy      371 CGCGATGCGCGGACCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCG 430
Db      301 CGCGATGCGCGGACCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCG 360
Qy      431 GGGAGGCGCGGACCTGCGAGGAGGAGCCCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGG 490
Db      361 GGGAGGCGCGGACCTGCGAGGAGGAGCCCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGG 420
Qy      491 GCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGG 550
Db      421 GCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGG 480
Qy      551 AGCGCTCCGAGACCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCG 610
Db      481 AGCGCTCCGAGACCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCGCGGCG 540
Qy      611 CTGGTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 670
Db      541 CTGGTGAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
Qy      671 GGGGTCTACTACTTCCCGCTCCATGCGCACCG 701
Db      601 GGGGTCTACTACTTCCCGCTCCATGCGCACCG 631

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RESULT 11
 BG706609 630 bp mRNA linear EST 07-MAY-2001
 LOCUS 602672994F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:4795558 5'

DEFINITION
 mRNA sequence.
 BG706609
 VERSION BG706609.1 GI:13982121
 KEYWORDS
 EST.
 SOURCE
 ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 630)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgabbs@mail.nih.gov
 Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
 cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shitaki
 Toshiyuki and Piero Carninci (RIKEN)
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: LLAM10678 row: 1 column: 23
 High quality sequence stop: 630.

FEATURES
 Source
 Location/Qualifiers
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1..630
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:4795558"
 /clone_1lb="NIH MGC 96"
 /issue_type="hypothalamus"
 /lab_host="DH10B"
 /note="Organ: brain; Vector: pBluescriptR (modified
 pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (gtcgag
); Oligo-dT primed using primer 5'-TTTTTTTTTTTAA-3',
 size-selected for average insert size 2.3 kb and
 normalized to ROP 5. This is a primary library enriched
 for full-length clones and constructed using the
 Cap-trapper method (Carninci, in preparation). Library
 constructed by M. Brownstein (NHGRI/NHRI, National
 Institutes of Health). Note: this is a NIH_MGC library."

BASE COUNT 93 a 215 c 257 g 65 t
 ORIGIN

Query Match 44.1%; Score 607.2; DB 12; Length 630;
 Best Local Similarity 99.5%; Pred. No. 7.1e-74;
 Matches 609; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy      7 TTCTCTTGAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 66
Db      19 TCTCTTGAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 78
Qy      67 GAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 126
Db      79 GAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 138
Qy      127 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 186
Db      139 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 198
Qy      187 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 246
Db      199 GCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 258
Qy      247 GCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 306
Db      259 GCTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 318
Qy      307 CTGCGCGCGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 366
Db      319 CTGCGCGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 378
Qy      367 GAGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 426
Db      379 GAGCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 438
Qy      427 GAGCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 486
Db      439 GAGCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 498
Qy      487 ACCCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 546
Db      499 ACCCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 558
Qy      547 CGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 606
Db      559 CGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 618
Qy      607 CGTGTGTGAGAA 618
Db      619 CGTGTGTGAGAA 630

```

RESULT 12
 BM893587/c 596 bp mRNA linear EST 29-APR-2002
 LOCUS 1126910.x1 Melton Normalized Human Islet 4 M4-HIS 1 Homo sapiens
 DEFINITION
 cDNA clone IMAGE:6136122 3' similar to TR:Q9JFX4 Q9JFX4
 HYPOTHEICAL 22.8 KD PROTEIN ;, mRNA sequence.

ACCESSION
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 596)
 Melton, D., Brown, D., Kenty, G., Permutt, A., Lee, C., Kaestner, K.,
 Lemishka, I., Scarce, M., Brestelli, J., Gradow, G., Clifton, S.,
 Hillier, L., Marra, M., Pape, D., Wylie, T., Martin, J., Bliststein, A.,
 Schmitt, A., Theising, B., Ritter, R., Ronko, I., Bennett, D., Cardenas
 M., Gibbons, M., McCann, R., Cole, R., Tsagaris, V., Williams, T.,
 Jackson, Y., and Bowers, Y.

TITLE
 Endocrine Pancreas Consortium

JOURNAL
COMMENT

Unpublished (2000)
Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Endocrine Pancreas Consortium
Harvard University, Howard Hughes Medical Institute
Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@molp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone please contact: Juliana Brown
(brown@fas.harvard.edu)
Seq primer: -40up from Gibco
High quality sequence stop: 441.

FEATURES

source

1. .596
/organism="Homo sapiens"
/db xref="taxon:9606"
/clone="IMAGE:6136122"
/clone_lib="Melton Normalized Human Islet 4 N4-HIS 1"
/sex="Both"
/tissue_type="Islets of Langerhans"
/dev stage="Adult"
/lab host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using
Superscript Plasmid Library kit (Life Technologies). cDNA
made by oligo-dT priming. Size-selected by column
fractionation; average insert size 1.08 kb. Library was
amplified once on solid support and plasmid DNA from
library was prepared. The library DNA was normalized by
method #4 from Bonaldo, Lemon, and Soares 1996 Genome
Research 6:791-806; 0.5 microgram single-stranded library
plasmid DNA was mixed with 5 micrograms PCR product
representing library inserts and hybridized to an Ecot of
20. Single-stranded (unhybridized) plasmids were isolated
by hydroxyapatite chromatography and used to make this
library."

BASE COUNT

139 a 183 c 169 g 105 t

ORIGIN

Query Match 43.3%; Score 596; DB 14; Length 596;
Best Local Similarity 100.0%; Pred. No. 2.5e-72;
Matches 596; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

752 GCCTCTTTCTTCAGTTTTCGGGGGGGCCCAAGCCAGCTCTGCTCGGGGGGGGCC 811
596 GCCTCTTTCTTCAGTTTTCGGGGGGGGGCCCAAGCCAGCTCTGCTCGGGGGGGGCC 537
812 ATGTGAGGCTGAGAGCTTGAAGCAACAGTGTGGGTGAGGTGGGTGACTACATTT 871
536 ATGTGAGGCTGAGAGCTTGAAGCAACAGTGTGGGTGAGGTGGGTGACTACATTT 477
872 GCATCTATGCGAGCATCAAGACAGACACCTTCCGGAATTTCTGGTACTCCGAC 931
476 GCATCTATGCGAGCATCAAGACAGACACCTTCCGGAATTTCTGGTACTCCGAC 417
932 TGGCAAGCTCCCAAGTCTTTTCTTAGTCCCACTGCAAGAGTCAATGCTCTACTC 991
416 TGGCAAGCTCCCAAGTCTTTTCTTAGTCCCACTGCAAGAGTCAATGCTCTACTC 357
992 CTAGAAGAGGGGTGAGGCTGACCAACAGGTCAATCAGAGAGGGTGGCCCCCTGGAT 1051
356 CTAGAAGAGGGGTGAGGCTGACCAACAGGTCAATCAGAGAGGGTGGCCCCCTGGAT 297
1052 ATTGTGAATGACTAGGAGAGTGGGTAGAGCACTCCGTCTGCTGCTGCAAGGAATG 1111
296 ATTGTGAATGACTAGGAGAGTGGGTAGAGCACTCCGTCTGCTGCTGCAAGGAATG 237
1112 GGAACAGTGGCTGTCTGCGATCAAGTCTGCGACAGCATGGGGCAGTGGCTGAATTTCTGCC 1171
236 GGAACAGTGGCTGTCTGCGATCAAGTCTGCGACAGCATGGGGCAGTGGCTGAATTTCTGCC 177

QY 1172 AAGACACAGAGAGTGTCTGTGCTGAGCAAGTAAATCCCCAGTTGCTGTGTCAGAGA 1231
DB 176 AAGACACAGAGAGTGTCTGTGCTGAGCAAGTAAATCCCCAGTTGCTGTGTCAGAGA 117
QY 1232 GCCACGGTGGGGGTGCTCTCTTCCGAGTCTGTGCTTCTGGAATCCGCCAACCCCTTC 1291
DB 116 GCCACGGTGGGGGTGCTCTCTTCCGAGTCTGTGCTTCTGGAATCCGCCAACCCCTTC 57
QY 1292 CTGCTCTCGGGGCGGCCCTTTTCTCAGAGATCACTCAATAAAGCTTAAGAACCTTC 1347
DB 56 CTGCTCTCGGGGCGGCCCTTTTCTCAGAGATCACTCAATAAAGCTTAAGAACCTTC 1

RESULT 13

LOCUS

BM544255

DEFINITION

AGENCOURT 6490655 NIH_MGC_125 Homo sapiens cDNA clone IMAGE:5587759

5', mRNA sequence.

ACCESSION

BM544255

VERSION

BM544255.1 GI:18775356

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

TITLE

NIH-MGC http://mhc.nci.nih.gov/.

JOURNAL

National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT

Unpublished (1999)

CONTACT

Contact: Robert Strausberg, Ph.D.

EMAIL

Email: cgabbs-remail.nih.gov

Tissue Procurement

Tissue Procurement: Invitrogen

cDNA Library Preparation

cDNA Library Preparation: Life Technologies, Inc.

DNA Sequencing

DNA Sequencing by: The I.M.A.G.E. Consortium (LMNL)

Clone Distribution

Clone Distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LMNL at:

http://image.llnl.gov

Plate

Plate: LLM12357 row: m column: 08

High quality sequence stop:

595.

FEATURES

source

Location/Qualifiers

1. .596

/organism="Homo sapiens"

/db xref="taxon:9606"

/clone="IMAGE:5587759"

/clone_lib="NIH_MGC_125"

/lab host="DH10B"

/note="Organ: ovary (pool of 3); Vector: pCMV-SPORT6;

Site_1: EcoRV (destroyed); Site_2: NotI; RNA source pool

of three ovaries, from females ranging in age from 38 to

49 yo. Library is oligo-dT primed and directionally cloned

EcoRV site is destroyed upon cloning). Average insert

size 2.1 kb, insert size range 1.3-5 kb. Library is

normalized and enriched for full-length clones and was

constructed by C. Gruber (Invitrogen). Research Genetics

tracking code 036."

1 others

BASE COUNT

138 a 158 c 172 g 127 t

ORIGIN

Query Match

42.6%; Score 586.4; DB 13; Length 596;

Best Local Similarity

99.7%; Pred. No. 5e-71; 2; Indels 0; Gaps 0;

Matches 587; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

789 CAGCTCGCTCTCGGGGGGGGCCATGTTGAGGCTGAGAGCTGAGAGCAAGTGTGGTGC 848
DB 1 CAGCTCGCTCTCGGGGGGGGCCATGTTGAGGCTGAGAGCTGAGAGCAAGTGTGGTGC 60
QY 849 AGTGGGTGTTGTTGATCACTTATGCAATGTCAGAGATCAAGACAGACAGACCTTCT 908
DB 61 AGTGGGTGTTGTTGATCACTTATGCAATGTCAGAGATCAAGACAGACAGACCTTCT 120
QY 909 CCGAATTTCTGTTACTCCAGATGCGACAGCTCCCAAGTCTTTGCTTAGTGCCACATGC 968

```

Db 121 CCGAGTTTCTGTGTAATCTGCACTGGACAGCTCCCACTTTGTTAGTGGCCACTGC 180
Qy 969 AAGTAGCTCATGCTCTCTACTCTAGAAAGAGGTGTAGAGCTGCAACAGAGTCATCC 1028
Db 181 AAGTAGCTCATGCTCTACTCTCTAGAAAGAGGTGTAGAGCTGCAACAGAGTCATCC 240
Qy 1029 AAGAGAGGCTGGCCCCCTGGAAATATTGTGAATGACTAGAGAGTGGGTGAGCACTCTC 1088
Db 241 AGAAGAGGCTGGCCCCCTGGAAATATTGTGAATGACTAGAGAGTGGGTGAGCACTCTC 300
Qy 1489 CTTCTGCTGCTGGAGAGAAATGAGAACTAGCTGTCTGCAATGAGTCTGGCAGCATG 1148
Db 301 CTTCTGCTGCTGGAGAGAAATGAGAACTAGCTGTCTGCAATGAGTCTGGCAGCATG 360
Qy 1149 GGGCAGTGGCTGATTTCTGCCCCAGACAGAGAGTGTGTGTCTGTCAGAGTGAAGT 1208
Db 361 GGGCAGTGGCTGATTTCTGCCCCAGACAGAGAGTGTGTGTCTGTCAGAGTGAAGT 420
Qy 1209 CCCCCAGTGTCTGTGTCTGAGAGAGCCAGAGTGGGTGTCTGTCTGTCTGTCTGTCT 1268
Db 421 CCCCCAGTGTCTGTGTCTGAGAGAGCCAGAGTGGGTGTCTGTCTGTCTGTCTGTCT 480
Qy 1269 CTCTGATCTCTCCCAACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1328
Db 481 CTCTGATCTCTCCCAACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
Qy 1329 AATTAACCTAGAACCTCTATTAATAAAAAAAAAAAAAAAAAAAAAA 1377
Db 541 AATTAACCTAGAACCTCTATTAATAAAAAAAAAAAAAAAAAAAAAA 589

```

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RESULT 14
LOCUS Bi821899 941 bp mRNA linear EST 04-OCT-2001
DEFINITION 603035796F1 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5176967 5',
ACCESSION Bi821899
VERSION Bi821899.1 GI:15933449
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

```

```

REFERENCE 1 (bases 1 to 941)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@pds-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LHAM11440 row: p column: 24
High quality sequence stop: 779.
Location/Qualifiers
1. 941
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5176967"
/lab_host="NIH_MGC_115"

```

FEATURES

```

source
/note="Organ: pooled brain, lung, testis; Vector:
pcmv-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA
source anonymous pool of 6 male brains, age range 23-27; 1
male lung, age 27; and 1 male testis, age 69. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.8 kb,
insert size range 1-3 kb. Library is normalized and

```

```

enriched for full-length clones and was constructed by C.
Gruber (Imitrogen). Research Genetics tracking code
021. Note: this is a NIH MGC library."
BASE COUNT 130 a 320 c 329 g 162 t
ORIGIN

```

```

Query Match 42.4%; Score 583.2; DB 13; Length 941;
Best Local Similarity 94.3%; Pred. No. 1e-70;
Matches 758; Conservative 0; Mismatches 28; Indels 18; Gaps 14;

```

```

Qy 191 GAGAACCCCGGCGTCCGAGCTCCGAGCTATAG-GCCACTCTCTCTCTCT 249
Db 136 GAGAACCCCGGCGTCCGAGCTCCGAGCTATAGAGCCACTCTCTCTCTCT 195
Qy 250 GCTCTGCGGCTGGGCGCGCTGCGCCCACTGAGACAAAGATCCCAAGCTCTG 309
Db 196 GCTCTGCGGCTGGGCGCGCTGCGCCCACTGAGACAAAGATCCCAAGCTCTG 255
Qy 310 CCGGCGGACCCCGGCTTCCAGGACCGGCGGACCAAGATGAGACCA-GGGCTTGGCCG 368
Db 256 CCGGCGGACCCCGGCTTCCAGGACCGGCGGACCAAGATGAGACCAAGCTTGGCCG 315
Qy 369 GCGCGATGAGCGCGACAGCGCGCGCGCG-GGCTCCGAGAGAAAGCGAG 427
Db 316 GCGCGATGAGCGCGACAGCGCGCGCGCGCGCGAGAGGAGAAAGCGAG 375
Qy 428 GCGCGAGGCGCGGACCTGCGGAGACCTGAGAGGAGACCCCGGCGCGAGAGAGCGGGA 487
Db 376 GCGCGAGGCGCGGACCTGCGGAGACCTGAGAGGAGACCCCGGCGCGAGAGAGCGGGA 435
Qy 488 CCGGCGGCGGCGGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 545
Db 436 CCGGCGGCGGCGGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 495
Qy 546 GCGCGAGGCGGCTCCAGAGCC--GGTGTCTCTCCCGCTGTAGACGACCTTG-CCTTTG 602
Db 496 GCGCGAGGCGGCTCCAGAGCCGTGGGTGTCTCTCCCGCTGTAGACGACCTTGCCCTTGG 555
Qy 603 ACCGCGTGTGTGTAACGAGGAGGACATTAGAGCGGCTGACCGGCAAGTCACTGTGC 662
Db 556 ACCGCGTGTGTGTAACGAGGAGGACATTAGAGCGGCTGACCGGCAAGTCACTGTGC 615
Qy 663 -AGTGTCTGAGGCTCTACTACTTCCGCGTCCA-TGCCACCGTCTACCGGCGGACGCTGCA 720
Db 616 GAGTGTCTGAGGCTCTACTACTTCCGCGTCCA-TGCCACCGTCTACCGGCGGACGCTGCA 675
Qy 721 GTTGTGCTGTGTAAGATGCGGAATCATTCCTCTTCTTCCAGTTTTCGGGCGGTG 780
Db 676 GTTGTGCTGTGTAAGATGCGGAATCATTCCTCTTCTTCCAG-TTTTCGGGCGGTG 734
Qy 781 GCGCAAGCGAGCTGCTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 839
Db 735 GCGCAAGCGAGCTGCTCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 794
Qy 840 TGTGTGTGAGGT-GGTTGTGAGTGACTATATGTCATGTCAGATCAAGACAGAC 898
Db 795 TGTGTGTGAGGT-GGTTGTGAGTGACTATATGTCATGTCAGATCAAGACAGAC 853
Qy 899 AGCACTTCTCGGATTTCTGTGTACTCCAGCTGACAGCTCCCACTCTTGTGTG 958
Db 854 AGCACTTCTCGGATTTCTGTGTACTCCAGCTGACAGCTCCCACTCTTGTGTG 912
Qy 959 TGCCCACTGCAAGAGTGCATG 982
Db 913 ---CCCTGTCAAGTGAAGTCTCTG 933

```

```

RESULT 15
LOCUS BM893691/c 578 bp mRNA linear EST 29-APR-2002
DEFINITION BM893691
c128e08.x1 Melton Normalized Human Retlet 4 NH-HIS 1 Homo sapiens
cDNA clone IMAGE:6136046 3' similar to TR:09UFx4 09UFx4
HYPOTHETICAL 22.8 KD PROTEIN ; mRNA sequence.

```


Human adipocyte c
Human mature TANGO
Novel human diagno
Human secreted pro
Human secreted pro
Human secreted pro
Human secreted pro
Human secreted pro
Human TANGO 253 C1
Novel human diagno
Rat skin cell prob
Skin cell protein,
Rat protein isolat
Murine mature TANGO
Murine secreted pr
Murine TANGO 253 S
Murine secreted pr
Murine secreted pr
Murine secreted pr
Human TANGO 253 C
Murine TANGO 253 C
Human signal peptid
Human TANGO 253 s
Miscellaneous pep
Peptide #3990 enco
Peptide #4051 enco
Protein #3883 enco
Human brain expres
Human bone marrow
Peptide #3958 enco
Peptide #4082 enco
Peptide #3878 enco
Human peptide enco
Human secreted pr

PR 22-MAY-1998; 98US-0086414.
 PR 10-JUN-1998; 98US-0086742.
 PR 10-NOV-1998; 98US-0107783.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;
 PI Roy MA, Wood WI,
 DR WPI; 1999-430385/36.
 DR N-PSDB; AAX87258.
 XX
 PT Antibody against proteins expressed in neoplastic cells, useful for
 PT tumor diagnosis and treatment
 XX
 PS Example 1; Fig 10; 162pp; English.
 XX
 CC This sequence represents human PRO344 (UNO303), a protein encoded
 CC by the novel cDNA clone DNA40592 (see AAX87258). Amplification of
 CC DNA40592 was observed in primary lung tumours and in primary colon
 CC tumours, suggesting a significant role in tumour formation and
 CC growth. Antagonists (e.g. antibodies) directed to PRO344 may have
 CC use in cancer therapy. The invention identifies 14 genes (see
 CC AAX87254-67) that are amplified in the genome of tumour cells. Such
 CC amplification is expected to be associated with overexpression of
 CC the gene product and to contribute to tumorigenesis. The encoded
 CC proteins (see AAY06477-90) may be useful targets for the diagnosis
 CC and/or treatment (including prevention) of certain cancers, and may
 CC act as predictors of the prognosis of tumour treatment. Antibodies
 CC that bind the proteins are claimed and used in claimed cancer
 CC diagnostic kits.
 CC
 SO Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHSQGLPGRDGRDGRDAPG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHSQGLPGRDGRDGRDAPG 60
 QY 61 APGEKGGGRPGPLPGRPDPPGPRGAGPAGPTGAGECVPPRPSAKRSRRVPPSD 120
 DB 61 APGEKGGGRPGPLPGRPDPPGPRGAGPAGPTGAGECVPPRPSAKRSRRVPPSD 120
 QY 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATYRASLQFDLVNKGESIASFPQ 180
 DB 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATYRASLQFDLVNKGESIASFPQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFGSLVYSDWHSPP 240
 DB 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFGSLVYSDWHSPP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 2
 ID AAY17827 standard; Protein; 243 AA.
 XX AAY17827;
 AC
 XX 12-AUG-1999 (first entry)
 DT
 XX Human PRO344 protein sequence.
 DE
 XX Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
 KM secreted protein; transmembrane protein; inflammation disorder.
 XX Homo sapiens.

XX W09928462-A2.
 FN 10-JUN-1999.
 XX
 PD 01-DEC-1998; 98MO-US25108.
 XX
 PF 25-FEB-1998; 98US-0075945.
 PR 03-DEC-1997; 97US-0067411.
 PR 11-DEC-1997; 97US-0069278.
 PR 11-DEC-1997; 97US-0069334.
 PR 11-DEC-1997; 97US-0069335.
 PR 12-DEC-1997; 97US-0069425.
 PR 16-DEC-1997; 97US-0069694.
 PR 16-DEC-1997; 97US-0069696.
 PR 16-DEC-1997; 97US-0069702.
 PR 17-DEC-1997; 97US-0069870.
 PR 17-DEC-1997; 97US-0069873.
 PR 18-DEC-1997; 97US-0068017.
 PR 05-JAN-1998; 98US-0070440.
 PR 09-FEB-1998; 98US-0074086.
 PR 09-FEB-1998; 98US-0074092.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
 PI Yuan J;
 XX WPI; 1999-371118/31.
 DR N-PSDB; AAX80052.
 XX
 PT Nucleic acids encoding PRO secreted and transmembrane proteins
 PT
 PS Claim 12; Fig 21; 123pp; English.
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy.
 CC identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.
 CC
 SO Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHSQGLPGRDGRDGRDAPG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHSQGLPGRDGRDGRDAPG 60
 QY 61 APGEKGGGRPGPLPGRPDPPGPRGAGPAGPTGAGECVPPRPSAKRSRRVPPSD 120
 DB 61 APGEKGGGRPGPLPGRPDPPGPRGAGPAGPTGAGECVPPRPSAKRSRRVPPSD 120
 QY 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATYRASLQFDLVNKGESIASFPQ 180
 DB 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATYRASLQFDLVNKGESIASFPQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFGSLVYSDWHSPP 240
 DB 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFGSLVYSDWHSPP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 3
 ID AAM97984

ID	AAW97984 standard; Protein; 243 AA.
XX	
XX	AAW97984;
XX	
DT	21-JUN-1999 (first entry)
XX	
DE	Human adipocyte-specific protein zsig39.
XX	
KW	Adipocyte-specific protein; zsig39; human; fatty acid metabolism;
KW	energy balance; nutrition; antimicrobial.
XX	
OS	Homo sapiens.
XX	
EH	Key
EH	Location/Qualifiers
FT	1..15
FT	/note= "signal peptide, alternatively the signal
FT	peptide comprises residues 1..18"
FT	16..243
FT	/note= "mature protein, alternatively the mature
FT	protein comprises residues 19..243
FT	(specifically claimed in Claim 4)"
FT	
FT	Domain
FT	30..96
FT	/note= "collagen-like domain"
FT	98..243
FT	/note= "globular domain"
FT	105..109
FT	/note= "beta strand"
FT	128..130
FT	/note= "beta strand"
FT	136..139
FT	/note= "beta strand"
FT	143..146
FT	/note= "beta strand"
FT	164..171
FT	/note= "beta strand"
FT	176..182
FT	/note= "beta strand"
FT	187..200
FT	/note= "beta strand"
FT	204..210
FT	/note= "beta strand"
FT	226..231
FT	/note= "beta strand"
FT	111..135
FT	/note= "receptor binding domain"
FT	170..174
FT	/note= "receptor binding domain"
XX	
FN	W09910492-A1.
XX	
PD	04-MAR-1999.
XX	
PE	26-AUG-1998; 98MO-US17724.
XX	
PR	26-AUG-1997; 97US-0056983.
XX	
PA	(ZYMO) ZYMOGENETICS INC..
XX	
PI	Humes JM, Shepard PO;
DR	WPI, 1999-204665/17.
DR	N-PSDB; AAX24684.
XX	
PT	
XX	
PS	Claim 1; 111-112; 132pp; English.
XX	
CC	This polypeptide comprises human adipocyte-specific protein zsig39,
CC	a protein that modulates free fatty acid metabolism. zsig39 is a
CC	member of a family of proteins having a globular domain and a
CC	collagen-like domain capable of dimerisation or oligomerisation.
CC	zsig39 polypeptides were initially identified by querying an EST
CC	database for secretory signal sequences characterised by an upstream

[illegible]

PD 14-SEP-2000.
 XX 02-MAR-2000; 2000OWO-US05841.
 XX 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99US-0123618.
 PR 12-MAR-1999; 99US-0123957.
 PR 23-MAR-1999; 99US-0125775.
 PR 12-APR-1999; 99US-0128849.
 PR 20-APR-1999; 99WO-US08615.
 PR 28-APR-1999; 99US-0131445.
 PR 04-MAY-1999; 99US-0132371.
 PR 14-MAY-1999; 99US-0134287.
 PR 02-JUN-1999; 99WO-US12252.
 PR 23-JUN-1999; 99US-0141037.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 PR 28-JUL-1999; 99US-0146222.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 29-OCT-1999; 99US-0162506.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30099.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000OWO-US00219.
 PR 06-JAN-2000; 2000OWO-US00277.
 PR 06-JAN-2000; 2000OWO-US00376.
 PR 11-FEB-2000; 2000OWO-US03565.
 PR 18-FEB-2000; 2000OWO-US04341.
 PR 18-FEB-2000; 2000OWO-US04342.
 PR 22-FEB-2000; 2000OWO-US04414.
 XX (GENTH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W,
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V,
 PI Stewart TA, Tamas D, Watanabe CK, Wood WI, Yan M;
 XX WPI; 2000-572271/53.
 DR N-PSDB; AAC58626.
 XX
 PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
 PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
 PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
 XX
 XX
 PT Claim 33; Fig 96; 309pp; English.
 XX
 CC The present invention describes sixty four human PRO proteins which can
 CC be used in the treatment of immune related diseases. The human PRO
 CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
 CC treating and diagnosing immune related disorders. The disorders are
 CC selected from systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
 CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central
 CC and peripheral nervous systems, hepatobiliary diseases, inflammatory
 CC bowel disease, gluten-sensitive enteropathy and Whipple's disease,
 CC autoimmune or immune-mediated skin diseases, allergic diseases,

	CC	immunological diseases of the lung, and transplantation associated
	CC	diseases including graft rejection and graft-versus-host disease.
	CC	AAC58397 to AAC58578 represent PCR primers and hybridisation probes used
	CC	in the isolation of human PRO sequences. AAC58579 to AAC58642 and
	CC	AAB33414 to AAB33477 represent human PRO polynucleotide and protein
	CC	sequences given in the exemplification of the present invention.
SQ	Sequence	243 AA;
Query Match	100.0%;	Score 243; DB 21; Length 243;
Best local Similarity	100.0%;	Pred. No. 4,9e-212;
Matches 243; Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
OY	1	MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHLPPTGPHHSGQLPGRDGRDRDGA PG 60
DB	1	MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHLPPTGPHHSGQLPGRDGRDRDGA PG 60
OY	61	APGEKGEGRGRLPGPRDPCPGCBAGPAGTGPAGECSVPPRSASFASRSESRRVPPSD 120
DB	61	APGEKGEGRGRLPGPRDPCPGCBAGPAGTGPAGECSVPPRSASFASRSESRRVPPSD 120
OY	121	APLPPDRVLVNEOGHYDAVTGKFTCOVPGVYYFAVAHAIVYPASLSQFDLVKNESIASPFQ 180
DB	121	APLPPDRVLVNEOGHYDAVTGKFTCOVPGVYYFAVAHAIVYPASLSQFDLVKNESIASPFQ 180
OY	181	FFGGMPKPASISGAMWALEBEDDVWVGVDYIGIYASIKTDSTFSGFLVYSDMHS SP 240
DB	181	FFGGMPKPASISGAMWALEBEDDVWVGVDYIGIYASIKTDSTFSGFLVYSDMHS SP 240
OY	241	VFA 243
DB	241	VFA 243
RESULT 5		
ID	AAV71468	Best local similarity standard; Protein; 243 AA.
AC	AAV71468;	
DT	08-NOV-2000	(first entry)
DE	Human PRO344 protein.	
KM	PRO344; DNA40592-1242; human; ATCC No: 209492; antiproliferative;	
KM	neoplastic cell growth inhibitor; cytoskeletal; treatment; cancer; tumour;	
KM	breast; prostate; colon; lung; renal; ovarian; central nervous system;	
KM	CNS; leukemia; melanoma; Expressed Sequence Tag; EST; secreted protein;	
KX	extracellular domain; ECD.	
OS	Homo sapiens.	
FT	Key	Location/Qualifiers
FT	Peptide	1..15
FT	Modified-site	/label= Signal_peptide
FT	Protein	11..17
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	16..243
FT	Modified-site	/label= Mature_PRO344_protein
FT	Binding-site	68..74
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	77..80
FT	Modified-site	/note= "Cell attachment sequence"
FT	Modified-site	216..222
FT	Modified-site	/note= "N-myristoylation site"
PN	WO20032778-A2.	
PD	08-JUN-2000.	
PF	30-NOV-1999;	99WO-US28409.
PR	01-DEC-1998;	98WO-US25108.

PR 16-DEC-1998; 98US-0112850.
 PR 22-DEC-1998; 98US-0113296.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 XX
 PA (GENTH) GENENTECH INC.
 PI Chen J, Goddard A, Gurney AL, Hillan K, Napier M, Wood WI;
 XX WPI; 2000-412325/35.
 DR N-PSDB; AAD01241.
 XX
 PT New composition useful for inhibiting neoplastic cell growth and for
 PT treating cancers, comprises PRO655, PRO344 or PRO364 polypeptide or
 PT their antagonists
 XX
 PS Claim 31; Fig 6; 108pp; English.
 XX
 CC The present sequence is the human PRO344 protein, encoded by the cDNA
 CC clone, designated as DNA40592-1242. It is isolated from human foetal
 CC lung tissue, cDNA library, identified using probes based on a consensus
 CC sequence DNA4398, derived from secreted protein extracellular domain
 CC (BCD) expressed sequence tag (EST). This clone is assigned ATCC deposit
 CC No: 209492. PRO344 functions as a neoplastic cell growth inhibitor and
 CC is used for treating tumours, using an effective amount of PRO655, PRO364
 CC and PRO344. This composition is especially useful for treatment of human
 CC cancers such as breast, prostate, colon, lung, renal, ovarian and CNS,
 CC leukemia and melanoma.
 CC
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4.9e-212; Indels 0; Gaps 0;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGTHNGSGQLPGRDGRDGDAG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGTHNGSGQLPGRDGRDGDAG 60
 QY 61 APGKGGGRRGLGPPGDDPPRGAGPAGTGPAGGSCVPPRPAFAKRSBSRPVPSD 120
 DB 61 APGKGGGRRGLGPPGDDPPRGAGPAGTGPAGGSCVPPRPAFAKRSBSRPVPSD 120
 QY 121 APLEPDRVLVNEQGHYAIVTGKFTQVPGVYFFAVHATVYRASLQFDLVKNGESIASFQ 180
 DB 121 APLEPDRVLVNEQGHYAIVTGKFTQVPGVYFFAVHATVYRASLQFDLVKNGESIASFQ 180
 QY 181 PFGGMPKPAASLGGAMVRLBEPDQVWVQVGVGYIGIYASIKTSTPSGFLVYSDMHSSP 240
 DB 181 PFGGMPKPAASLGGAMVRLBEPDQVWVQVGVGYIGIYASIKTSTPSGFLVYSDMHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 6
 ID AAY93688 standard; Protein; 243 AA.
 AC AAY93688;
 XX
 DT 03-OCT-2000 (first entry)
 XX
 DE Amino acid sequence of novel polypeptide PRO344.
 XX
 KW PRO201; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;
 KW PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
 KW tumorigenesis; cancer; neoplastic cell growth; cell proliferation.
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers

FT Peptide 1..15
 FT /note= "signal peptide"
 FT Modified-site 11..17
 FT /note= "N-myristoylation site"
 FT Modified-site 68..74
 FT /note= "N-myristoylation site"
 FT Region 77..80
 FT /note= "cell attachment sequence"
 FT Modified-site 216..222
 FT /note= "N-myristoylation site"
 XX
 EN W0200037640-A2.
 PD 29-JUN-2000.
 XX
 PE 16-DEC-1999; 99WO-US30095.
 XX
 PR 22-DEC-1998; 98US-0113296.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
 PI Wood WI;
 XX WPI; 2000-452188/39.
 DR N-PSDB; AAA46907.
 DR
 PT New anti-polypeptide antibody useful in the treatment and diagnosis of
 PT neoplastic cell growth and proliferation
 XX
 PS Claim 61; Fig 10; 220pp; English.
 CC The present sequence represents a novel human polypeptide. The
 CC specification describes novel polypeptides designated PRO201, PRO292,
 CC PRO327, PRO1265, PRO344, PRO343, PRO347, PRO715, PRO1017,
 CC PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in
 CC the genome of tumour cells. The polypeptides are believed to contribute
 CC to tumorigenesis. The polypeptides are useful target for the
 CC identification of certain cancers, and may act as predictors of the
 CC prognosis of tumour treatment. Antibodies against these polypeptides
 CC are useful in the treatment and diagnosis of neoplastic cell growth
 CC and proliferation in mammals.
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4.9e-212; Indels 0; Gaps 0;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGTHNGSGQLPGRDGRDGDAG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGTHNGSGQLPGRDGRDGDAG 60
 QY 61 APGKGGGRRGLGPPGDDPPRGAGPAGTGPAGGSCVPPRPAFAKRSBSRPVPSD 120
 DB 61 APGKGGGRRGLGPPGDDPPRGAGPAGTGPAGGSCVPPRPAFAKRSBSRPVPSD 120
 QY 121 APLEPDRVLVNEQGHYAIVTGKFTQVPGVYFFAVHATVYRASLQFDLVKNGESIASFQ 180
 DB 121 APLEPDRVLVNEQGHYAIVTGKFTQVPGVYFFAVHATVYRASLQFDLVKNGESIASFQ 180
 QY 181 PFGGMPKPAASLGGAMVRLBEPDQVWVQVGVGYIGIYASIKTSTPSGFLVYSDMHSSP 240
 DB 181 PFGGMPKPAASLGGAMVRLBEPDQVWVQVGVGYIGIYASIKTSTPSGFLVYSDMHSSP 240

OY 241 VFA 243
 Db 241 VFA 243

RESULT 7
 AAB01318 standard; Protein; 243 AA.

XX AAB01318;

DT 25-SEP-2000 (first entry)

XX Human PRO344 polypeptide.

XX PRO: membrane bound protein; secreted protein; PRO357; PRO327;
 KW PRO243; PRO715; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347;
 KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
 KW antibody; screening; detection; inhibition; probe; primer; human.
 XX Homo sapiens.

OS
 FH Key Location/Qualifiers
 FT Peptide 1..15
 FT /label= Signal peptide
 FT Modified-site 11..17
 FT /note= "N-myristoylation site"
 FT Modified-site 68..74
 FT /note= "N-myristoylation site"
 FT Region 77..80
 FT /label= Cell attachment sequence
 FT Modified-site 216..222
 FT /note= "N-myristoylation site"

FN WO200032776-A2.

XX 08-JUN-2000.

PD 01-DEC-1999; 99WO-US28301.

PF 01-DEC-1998; 98WO-US25108.

PR 16-DEC-1998; 98US-0112850.

PR 22-DEC-1998; 98US-0113296.

XX (GETH) GENENTECH INC.

PI Baker KP, Botstein D, Eaton DL, Ferrara N, Fljvaroff B;
 PI Gerltsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
 PI Hillan KJ, Kijavain J, Napier MA, Roy MA, Tumas D, Wood WI;

XX WPI; 2000-412324/35.

DR N-PSDB; AAA49560.

XX New human nucleic acids encoding secreted and transmembrane
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical
 PT and diagnostic agents

PS Claim 12; Fig 18; 187pp; English.

XX New human nucleic acids encoding secreted and transmembrane
 CC polypeptides which are designated as PRO polypeptides are described
 CC The membrane-bound proteins have various industrial applications,
 CC including as pharmaceutical and diagnostic agents. The membrane-bound
 CC proteins can also be employed for screening of potential peptide or
 CC small molecule inhibitors of the relevant receptor/ligand interaction.
 CC Anti-PRO antibodies are useful for the affinity purification of PRO
 CC from recombinant cell culture or natural sources.

XX Sequence 243 AA;

Query Match 100.0%; Score 243; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4,9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDDNKITPSLCGHPGLPSTRGHSSQGLPGDGDGDGARG 60
 Db 1 MRPLVLLLLGLAAGSPPLDDNKITPSLCGHPGLPSTRGHSSQGLPGDGDGDGARG 60
 OY 61 APGEKGEGRPGPLRGRGDPGRPGEGAPGTGPAGECSPRPSAFSARSSSRVPPSPD 120
 Db 61 APGEKGEGRPGPLRGRGDPGRPGEGAPGTGPAGECSPRPSAFSARSSSRVPPSPD 120
 OY 121 APPLPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATVYRASLQFDLVNGESIASFPQ 180
 Db 121 APPLPDRVLVNEQGHDAVTGKFTCOVPGVYFAVAATVYRASLQFDLVNGESIASFPQ 180
 OY 181 FPGGMPKPSLSCGANVRLPEPDQVWQVGVGDIYIGIYASIKTDSFSGFLVYSDWHSSP 240
 Db 181 FPGGMPKPSLSCGANVRLPEPDQVWQVGVGDIYIGIYASIKTDSFSGFLVYSDWHSSP 240
 OY 241 VFA 243
 Db 241 VFA 243

RESULT 8
 AAU12352
 ID AAU12352 standard; Protein; 243 AA.

XX AAU12352;

DT 24-OCT-2001 (first entry)

XX Human PRO344 polypeptide sequence.

XX Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumor necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy.

XX Homo sapiens.

OS WO200140466-A2.

FN 07-JUN-2001.

PD 01-DEC-2000; 2000WO-US32678.

PF 01-DEC-1999; 99WO-US28301.

PR 02-DEC-1999; 99WO-US28551.

PR 02-DEC-1999; 99WO-US28564.

PR 02-DEC-1999; 99US-0170262.

PR 16-DEC-1999; 99WO-US30095.

PR 20-DEC-1999; 99WO-US30911.

PR 30-DEC-1999; 99WO-US31243.

PR 06-JAN-2000; 2000WO-US00277.

PR 06-JAN-2000; 2000WO-US00376.

PR 18-FEB-2000; 2000WO-US03565.

PR 18-FEB-2000; 2000WO-US04341.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US04914.

PR 01-MAR-2000; 2000WO-US05004.

PR 20-MAR-2000; 2000WO-US05377.

PR 21-MAR-2000; 2000WO-US07532.

PR 30-MAR-2000; 2000WO-US08439.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 10-NOV-2000; 2000WO-US30873.

XX	Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KM	INTERCEPT 256; coronary disorder; olfactory disorder;
KW	neurological disorder; pulmonary disorder; immunological disorder;
KV	developmental disorder; kidney disorder.
XX	
OS	Homo sapiens.
XX	
FN	WO20078808-A1.
XX	
PD	28-DEC-2000.
XX	
PE	19-JUN-2000; 2000WO-US16883.
XX	
PR	18-JUN-1999; 99US-0336536.
XX	
PA	(MILL-) MILLENNIUM PHARM INC.
XX	
PI	Leiby KR, McKay C, Bossone S;
XX	
DR	WP1; 2001-050109/06.
XX	
PT	New nucleic acids for treating diseases and disorders, e.g.
PT	atherosclerosis, infection, autoimmune diseases, obesity, ear
PT	disorders, brain disorders, tumors, diabetes, arthritis, multiple
PT	sclerosis and asthma -
XX	
PS	Claim 9; Page 211-212; 332pp; English.
XX	
CC	The present invention provides the protein and coding sequences of the
CC	human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
CC	TANGO 281 and INTERCEPT 258. These are useful in the treatment of
CC	coronary, pulmonary, olfactory, immunological, neurological,
CC	developmental and kidney disorders.
XX	
SQ	Sequence 243 AA:
Query Match	100.0%; Score 243; DB 22; Length 243;
Best Local Similarity	100.0%; Pred. No. 4.9e-212;
Matches 243; Conservative	0; Mismatches 0; Indels 0; Gaps 0
QY	1 MRPLLVLLTGLAAGSPPLDNDKIPLLCRGHGLPCTGGHGSGCLPGRDGGRDGAGC 60
DB	1 MRPLVLVLLTGLAAGSPPLDNDKIPLLCRGHGLPCTGGHGSGCLPGRDGGRDGAGC 60
QY	61 APGEKGBEGRGGLPCPRGDPPGRGAGPAGTPGAGECSVPPRSASFSAKRSSSRVPPSD 120
DB	61 APGEKGBEGRGGLPCPRGDPPGRGAGPAGTPGAGECSVPPRSASFSAKRSSSRVPPSD 120
QY	121 APLPFDRVLVNEOGHYDAVTAKFTCOVGVVYFAVAHVATVYRASLQFDLVKNESIASFPQ 180
DB	121 APLPFDRVLVNEOGHYDAVTAKFTCOVGVVYFAVAHVATVYRASLQFDLVKNESIASFPQ 180
QY	181 FFGGMPKRAASISGAMVFLBEDDVVVGVGVDYIGIYASITDSTFSGFLVYSDMHSSP 240
DB	181 FFGGMPKRAASISGAMVFLBEDDVVVGVGVDYIGIYASITDSTFSGFLVYSDMHSSP 240
QY	241 VFA 243
DB	241 VFA 243
RESULT 10	
AAB49593	
ID	AAB49593 standard; Protein; 243 AA.
XX	
AC	AAB49593;
XX	
DT	13-MAR-2001 (first entry)
XX	
DE	Human adipocyte complement related protein homolog zs1g39.
XX	
KX	Human; zacrpf; gene therapy; complement inhibition; C1q domain;

KM adipocyte complement related protein homolog;
 KM inflammation; hormone secretion; inositol phosphate; arachidonate;
 KM phospholipase C activation; gastric emptying; neutrophil activation;
 KM superoxide anion production; antimicrobial; acute vascular injury;
 KM wound healing; zsig39.

XX Homo sapiens.

PN WO200073444-A1.

PD 07-DEC-2000.

PP 18-MAY-2000; 2000WO-US13608.

PR 27-MAY-1999; 99US-0321372.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Sheppard PO;

DR WPI; 2001-061531/07.

PT Novel adipocyte complement related protein homolog, ZACRP5, useful for
 PT diagnosing and treating inflammation, vascular injury microbial
 PT infections, and in wound healing

PS Disclosure; Fig 1; 121pp; English.

XX The present invention relates to human adipocyte complement related
 CC protein homolog, zacrp5 protein and coding sequence (see AAB49590 and
 CC AAC90045). ZACRP5 has a carboxyl-terminal C1q domain. The zacrp5 gene is
 CC located on human chromosome 16. zacrp5 gene and protein are useful for
 CC diagnosing and treating inflammations, for determining arterial
 CC remodeling, for modulating calcium ion concentration, hormone
 CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
 CC arachidonate release, phospholipase C activation, gastric emptying, human
 CC neutrophil activation or ADCC capability and superoxide anion production.
 CC zacrp5 gene and protein are also useful as antimicrobial applications,
 CC preferably against bacteria and virus, for complement inhibition, for
 CC treating acute vascular injury, and for wound healing. The present
 CC sequence is human adipocyte complement related protein homolog, zsig39
 CC protein. This protein was used in a sequence homology alignment with
 CC zacrp5 protein.

XX Sequence 243 AA;

Query Match 100.0%; Score 243; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLIVLLILGLAGSPPLDNDKIPSLCPGHPGLPCTPGHHSGQLPGDRGDRDGAAG 60
 DB 1 MRPLIVLLILGLAGSPPLDNDKIPSLCPGHPGLPCTPGHHSGQLPGDRGDRDGAAG 60
 QY 61 APGEKGBGRPGLPGRPRDPPRGRGAPGTPGAGECVPPRSASFARSRVPPSPD 120
 DB 61 APGEKGBGRPGLPGRPRDPPRGRGAPGTPGAGECVPPRSASFARSRVPPSPD 120
 QY 121 APLPFDRLVNVGQHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESTIASFFQ 180
 DB 121 APLPFDRLVNVGQHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESTIASFFQ 180
 QY 161 FFGGWPKPASLSGAMVRLBPDQVWVGVDYIGIYASIKTDTSTFGFLVYSMDHSSP 240
 DB 161 FFGGWPKPASLSGAMVRLBPDQVWVGVDYIGIYASIKTDTSTFGFLVYSMDHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 11
 AAB49599

ID AAB49599 standard; Protein; 243 AA.

XX AAB49599;

DT 13-MAR-2001 (first entry)

DE Human adipocyte complement related protein homolog zsig39.

XX Human; zacrp6; gene therapy; complement inhibition; C1q domain;

KM adipocyte complement related protein homolog;

KM inflammation; hormone secretion; inositol phosphate; arachidonate;
 KM phospholipase C activation; gastric emptying; neutrophil activation;
 KM superoxide anion production; antimicrobial; acute vascular injury;
 KM wound healing; zsig39.

XX Homo sapiens.

PN WO200073446-A2.

PD 07-DEC-2000.

PP 22-MAY-2000; 2000WO-US14024.

PR 27-MAY-1999; 99US-0321262.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Sheppard PO;

DR WPI; 2001-061532/07.

PT Novel adipocyte complement related protein homolog, ZACRP6, useful as
 PT modulators of neurotransmission and for treating disseminated
 PT intravascular coagulation, arteriosclerosis and acute vascular injury

PS Disclosure; Fig 1; 119pp; English.

XX The present invention relates to human adipocyte complement related
 CC protein homolog, ZACRP6 protein and coding sequence (see AAB49596 and
 CC AAC90051). ZACRP6 has a carboxyl-terminal C1q domain. The zacrp6 gene is
 CC located on human chromosome 21q. zacrp6 gene and protein are useful for
 CC diagnosing and treating inflammations, for determining arterial
 CC remodeling, for modulating calcium ion concentration, hormone
 CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
 CC arachidonate release, phospholipase C activation, gastric emptying, human
 CC neutrophil activation or ADCC capability and superoxide anion production.
 CC zacrp6 gene and protein are also useful as antimicrobial applications,
 CC preferably against bacteria and virus, for complement inhibition, for
 CC treating acute vascular injury, disseminated intravascular coagulation,
 CC arteriosclerosis and for wound healing. The present sequence is human
 CC adipocyte complement related protein homolog zsig39. This protein was
 CC used in a sequence homology comparison with ZACRP6 protein.

XX Sequence 243 AA;

Query Match 100.0%; Score 243; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLIVLLILGLAGSPPLDNDKIPSLCPGHPGLPCTPGHHSGQLPGDRGDRDGAAG 60
 DB 1 MRPLIVLLILGLAGSPPLDNDKIPSLCPGHPGLPCTPGHHSGQLPGDRGDRDGAAG 60
 QY 61 APGEKGBGRPGLPGRPRDPPRGRGAPGTPGAGECVPPRSASFARSRVPPSPD 120
 DB 61 APGEKGBGRPGLPGRPRDPPRGRGAPGTPGAGECVPPRSASFARSRVPPSPD 120
 QY 121 APLPFDRLVNVGQHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESTIASFFQ 180
 DB 121 APLPFDRLVNVGQHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESTIASFFQ 180
 QY 161 FFGGWPKPASLSGAMVRLBPDQVWVGVDYIGIYASIKTDTSTFGFLVYSMDHSSP 240
 DB 161 FFGGWPKPASLSGAMVRLBPDQVWVGVDYIGIYASIKTDTSTFGFLVYSMDHSSP 240

DB 61 EAGPAGTPGAGGECSPPRSAFSAKRSERVPPSDALPDRVLVNEQGHDAVTKFT 120
 QY 145 CQVEGVYFAVHAATVYRASLQFDLVKNGESIASFFQFGGMPKPSASGGAMVLEBEDQ 204
 DB 121 CQVGVYFAVHAATVYRASLQFDLVKNGESIASFFQFGGMPKPSASGGAMVLEBEDQ 180
 QY 205 VMVGVGDYIGIYASIKTDTSTSGFLVYS DMH 237
 DB 181 VMVGVGDYIGIYASIKTDTSTSGFLVYS DMH 213

RESULT 14

AAB65888
 ID AAB65888 standard; Protein; 243 AA.
 AC AAB65888;
 XX
 DT 28-MAR-2001 (first entry)
 DE Human secreted protein related protein SEQ ID NO: 102.
 XX
 KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KW INTERCEPT 258; coronary disorder; olfactory disorder;
 KW neurological disorder; pulmonary disorder; immunological disorder;
 KW developmental disorder; kidney disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200078808-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 19-JUN-2000; 2000WO-US16883.
 XX
 PR 18-JUN-1999; 99US-0336536.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Leiby KR, McKay C, Bossone S;
 XX
 DR WPI; 2001-050109/06.
 XX
 PS New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma -
 XX
 PS Disclosure; Page 270-271; 332pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 XX
 SQ Sequence 243 AA;
 QY Query Match 76.1%; Score 185; DB 22; Length 243;
 DB Best Local Similarity 100.0%; Pred. No. 1.8e-159;
 Matches 185; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 59 PGAPGKGGRRGRLPGPRGDPQPRGEAGPAGPTGAGCSPPSAFAKRSERVPPSD 118
 DB 59 PGAPGKGGRRGRLPGPRGDPQPRGEAGPAGPTGAGCSPPSAFAKRSERVPPSD 118
 QY 119 SDAPLPEFDRVLVNEQGHDAVTKFTQVPGVYFAVHAATVYRASLQFDLVNKGESIASF 178
 DB 119 SDAPLPEFDRVLVNEQGHDAVTKFTQVPGVYFAVHAATVYRASLQFDLVNKGESIASF 178
 QY 179 POFPGGMPKPSASGGAMVLEBEDQVMVGVGDYIGIYASIKTDTSTSGFLVYS DMH 238
 DB 179 POFPGGMPKPSASGGAMVLEBEDQVMVGVGDYIGIYASIKTDTSTSGFLVYS DMH 238

QY 239 SPVFA 243
 DB 239 SPVFA 243

RESULT 15

AAB65891
 ID AAB65891 standard; Protein; 243 AA.
 AC AAB65891;
 XX
 DT 28-MAR-2001 (first entry)
 DE Human secreted protein related protein SEQ ID NO: 108.
 XX
 KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KW INTERCEPT 258; coronary disorder; olfactory disorder;
 KW neurological disorder; pulmonary disorder; immunological disorder;
 KW developmental disorder; kidney disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200078808-A1.
 XX
 PD 28-DEC-2000.
 XX
 PF 19-JUN-2000; 2000WO-US16883.
 XX
 PR 18-JUN-1999; 99US-0336536.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Leiby KR, McKay C, Bossone S;
 XX
 DR WPI; 2001-050109/06.
 XX
 PS New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma -
 XX
 PS Disclosure; Page 274; 332pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 XX
 SQ Sequence 243 AA;
 QY Query Match 71.6%; Score 174; DB 22; Length 243;
 DB Best Local Similarity 100.0%; Pred. No. 1.7e-149;
 Matches 174; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHGRLGTRPHHGSQGLGRDGRDGAAG 60
 DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHGRLGTRPHHGSQGLGRDGRDGAAG 60
 QY 61 ARGKGGGRRGRLPGPRGDPQPRGEAGPAGPTGAGCSPPSAFAKRSERVPPSD 120
 DB 61 ARGKGGGRRGRLPGPRGDPQPRGEAGPAGPTGAGCSPPSAFAKRSERVPPSD 120
 QY 121 APLEPDRVLVNEQGHDAVTKFTQVPGVYFAVHAATVYRASLQFDLVNKGES 174
 DB 121 APLEPDRVLVNEQGHDAVTKFTQVPGVYFAVHAATVYRASLQFDLVNKGES 174

Search completed: June 20, 2003, 11:40:48
 Job time : 37 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 20, 2003, 11:40:55 ; Search time 20 Seconds
(without alignments)
357.489 Million cell updates/sec

Title: US-09-944-403-42
Perfect score: 243
Sequence: 1 MRPLVLLILGLAAGSPPLD.....DSTFGSLVYSMDHSSPVA 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 262574 seqs, 29422922 residues

Word size : 0

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A.COMB.pep.*
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3: /cgn2_6/ptodata/1/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PTCUS.COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	243	100.0	243	US-09-140-804-2	Sequence 2, Appli
2	243	100.0	243	US-09-336-536-3	Sequence 3, Appli
3	228	93.8	228	US-09-336-536-4	Sequence 4, Appli
4	128	52.7	128	US-09-336-536-7	Sequence 7, Appli
5	70	28.8	243	US-09-188-930-295	Sequence 295, App
6	62	25.5	228	US-09-336-536-11	Sequence 11, Appl
7	62	25.5	243	US-09-336-536-10	Sequence 10, Appl
8	60	24.7	60	US-09-336-536-6	Sequence 6, Appli
9	51	21.0	128	US-09-336-536-14	Sequence 14, Appl
10	43	17.7	60	US-09-336-536-13	Sequence 13, Appl
11	15	6.2	15	US-09-336-536-5	Sequence 5, Appli
12	11	4.5	128	US-09-227-357-190	Sequence 190, App
13	10	4.1	1057	US-08-931-820-4	Sequence 4, Appli
14	10	4.1	1078	US-08-963-825-21	Sequence 21, Appl
15	10	4.1	1078	US-09-500-811-21	Sequence 21, Appl
16	10	4.1	1078	US-09-570-573-21	Sequence 21, Appl
17	10	4.1	1078	US-09-548-608-21	Sequence 21, Appl
18	10	4.1	1078	US-09-548-608-21	Sequence 21, Appl
19	8	3.3	170	US-08-485-316A-10	Sequence 10, Appl
20	8	3.3	170	US-08-313-681A-2	Sequence 2, Appli
21	8	3.3	184	US-08-322-911-2	Sequence 2, Appli
22	8	3.3	184	US-08-211-942-7	Sequence 7, Appli
23	8	3.3	184	US-08-211-942-15	Sequence 15, Appl
24	8	3.3	186	US-08-211-942-9	Sequence 9, Appli
25	8	3.3	222	US-09-140-804-7	Sequence 7, Appli
26	8	3.3	231	US-09-530-423-2	Sequence 2, Appli
27	8	3.3	244	US-08-463-911-7	Sequence 7, Appli
			244	US-09-140-804-3	Sequence 3, Appli

28	8	3.3	244	4	US-09-336-536-20	Sequence 20, Appl
29	8	3.3	244	4	US-09-530-423-1	Sequence 1, Appli
30	8	3.3	247	4	US-08-463-911-2	Sequence 2, Appli
31	8	3.3	247	4	US-09-140-804-8	Sequence 8, Appli
32	8	3.3	247	4	US-09-118-408-3	Sequence 3, Appli
33	8	3.3	247	4	US-09-506-855-3	Sequence 3, Appli
34	8	3.3	368	1	US-08-211-942-17	Sequence 17, Appl
35	8	3.3	547	1	US-08-494-168-7	Sequence 7, Appli
36	8	3.3	1024	3	US-08-931-820-2	Sequence 2, Appli
37	8	3.3	1366	3	US-08-963-825-19	Sequence 19, Appl
38	8	3.3	1366	4	US-09-570-573-19	Sequence 19, Appl
39	8	3.3	1366	4	US-09-548-608-19	Sequence 19, Appl
40	8	3.3	1366	4	US-09-585-887-10	Sequence 10, Appl
41	8	3.3	1366	4	US-09-289-578-10	Sequence 10, Appl
42	8	3.3	1366	4	US-09-316-650-12	Sequence 12, Appl
43	8	3.3	1442	5	PCT-US95-02251-12	Sequence 12, Appl
44	8	3.3	1694	1	US-08-494-168-2	Sequence 2, Appli
45	8	3.3				

ALIGNMENTS

RESULT 1
US-09-140-804-2
; Sequence 2, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-49
; CURRENT APPLICATION NUMBER: US/09/140,804
; EARLIER FILING DATE: 1998-08-26
; EARLIER APPLICATION NUMBER: 60/056,983
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-140-804-2

Query Match 100.0%; Score 243; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-218;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCRGHPGLPRTGHHGQGLRGDRGRGAPG 60
Db 1 MRPLVLLILGLAAGSPPLDNDKIPSLCRGHPGLPRTGHHGQGLRGDRGRGAPG 60
QY 61 APGKGGGPPGPGPRGDPGRGAGPAGTGPAGCSVPSPASAKRSBSPVPSD 120
Db 61 APGKGGGPPGPGPRGDPGRGAGPAGTGPAGCSVPSPASAKRSBSPVPSD 120
QY 121 APPLPDDVLAQNEQHYDAVTKFTCOVGYVFAVHATYRASLQDFLVNNGSISFFQ 180
Db 121 APPLPDDVLAQNEQHYDAVTKFTCOVGYVFAVHATYRASLQDFLVNNGSISFFQ 180
QY 181 FFGGMPKPRASISGAMVRLPEPDQVWQVGVGYITGYSATIKTDSFTSGFLVYSMDHSSP 240
Db 181 FFGGMPKPRASISGAMVRLPEPDQVWQVGVGYITGYSATIKTDSFTSGFLVYSMDHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 2
US-09-336-536-3
; Sequence 3, Application US/09336536
; Patent No. 6406864

GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-3

Query Match 100.0%; Score 243; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-218;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLTGLAAGSPPLDNDKIPSLCPGHPGLPTFGHHGSGQLPGRDGRDRDGAAG 60
DB 1 MRPLVLLTGLAAGSPPLDNDKIPSLCPGHPGLPTFGHHGSGQLPGRDGRDRDGAAG 60
QY 61 APGEGEGRRPGLPGRDGRDRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRD 120
DB 61 APGEGEGRRPGLPGRDGRDRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRDGRD 120
QY 121 APLPDRVLVNEQGHYDAVTGKTCQVGVYFAVHAIVYASLQFDLVKNGESIASFFQ 180
DB 121 APLPDRVLVNEQGHYDAVTGKTCQVGVYFAVHAIVYASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPSISGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSP 240
DB 181 FFGGMPKPSISGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 3

US-09-336-536-4
Sequence 4, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 228
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-4

Query Match 93.8%; Score 228; DB 4; Length 228;
Best Local Similarity 100.0%; Pred. No. 1.4e-204;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SPLDNDKIPSLCPGHPGLPTFGHHGSGQLPGRDGRDRDGAAGAPGEGEGRRPGLPG 75
DB 1 SPLDNDKIPSLCPGHPGLPTFGHHGSGQLPGRDGRDRDGAAGAPGEGEGRRPGLPG 75
QY 76 PRDPPRGRBAGPAGTGTGAGGCSVPKSAFSAKSESVPSPSDAPLPDRVLVNEQGH 135
DB 61 PRDPPRGRBAGPAGTGTGAGGCSVPKSAFSAKSESVPSPSDAPLPDRVLVNEQGH 120

QY 136 YDAVTGKTCQVGVYFAVHAIVYASLQFDLVKNGESIASFFQFGMPKPSISGGA 195
DB 121 YDAVTGKTCQVGVYFAVHAIVYASLQFDLVKNGESIASFFQFGMPKPSISGGA 180
QY 196 MVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSPVA 243
DB 181 MVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSPVA 228

RESULT 4

US-09-336-536-7
Sequence 7, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 128
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-7

Query Match 52.7%; Score 128; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 9.7e-112;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 AFSAKSESRRVPPSDAPLPDRVLVNEQGHYDAVTGKTCQVGVYFAVHAIVYASL 164
DB 1 AFSAKSESRRVPPSDAPLPDRVLVNEQGHYDAVTGKTCQVGVYFAVHAIVYASL 60
QY 165 QFDLVKNGESIASFFQFGMPKPSISGAMVRLPEPDQVWVGVDYIGIYASIKTD 224
DB 61 QFDLVKNGESIASFFQFGMPKPSISGAMVRLPEPDQVWVGVDYIGIYASIKTD 120
QY 225 STFGFLV 232
DB 121 STFGFLV 128

RESULT 5

US-09-188-930-295
Sequence 295, Application US/09188930A
Patent No. 6150502
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James Greg
TITLE OF INVENTION: Compositions Isolated From Skin Cells
TITLE OF INVENTION: and Methods For Their Use
FILE REFERENCE: 11000.1011C1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 295
LENGTH: 243
TYPE: PRT
ORGANISM: Rat
US-09-188-930-295

Query Match 28.8%; Score 70; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-57;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match	25.5%	Score 62	DB 4	Length 243
Best Local Similarity	100.0%	Pred. No. 4.5e-50		
Matches	62	Conservative	0	Mismatches 0; Indels 0; Gaps 0
QY	182	FGGMPKPSLISGGAMVRLPEPDQVWVQVNGVYIGIYASIKTDSFPGSLVYSDMHSRY	241	
Db	182	FGGMPKPSLISGGAMVRLPEPDQVWVQVNGVYIGIYASIKTDSFPGSLVYSDMHSRY	241	
QY	242	FA	243	
Db	242	FA	243	

[illegible]

SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 13
LENGTH: 60
TYPE: PRT
ORGANISM: Mus musculus
US-09-336-536-13

Query Match 17.7%; Score 43; DB 4; Length 60;
Best Local Similarity 100.0%; Pred. No. 6.3e-33;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 GTPGHSGQGLPGRGDRDGPAPGAPGKGGKGGPGGPGG 78
Db 1 GTPGHSGQGLPGRGDRDGPAPGAPGKGGKGGPGGPGG 43

RESULT 11
US-09-336-536-5
Sequence 5, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT FILING DATE: 1999-06-18
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5
LENGTH: 15
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-5

Query Match 6.2%; Score 15; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRPLVLLGLAAG 15
Db 1 MRPLVLLGLAAG 15

RESULT 12
US-09-227-357-190
Sequence 190, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT FILING DATE: 1999-01-08
CURRENT FILING DATE: 1999-01-08
EARLIER APPLICATION NUMBER: PCT/US98/13684
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,929
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,803
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,732
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,931
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,932
EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,916
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,930
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,918
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,733
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,795
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,919
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,928
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/055,722
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,723
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,948
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,949
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,953
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,947
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,984
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,954
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/058,785
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,664
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,660
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,661
EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 190
LENGTH: 128
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (127)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
FEATURE:
NAME/KEY: SITE
LOCATION: (128)
OTHER INFORMATION: Xaa equals stop translation
US-09-227-357-190

Query Match 4.5%; Score 11; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.0074;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 GLPGRDRGR 55
Db 59 GLPGRDRGR 69

RESULT 13
US-08-931-820-4
Sequence 4, Application US/08931820
Patent No. 6010863
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Assay for collagen degradation
NUMBER OF SEQUENCES: 4
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,820
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 96202596.1
FILING DATE:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1057 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Collagen type III
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1055
OTHER INFORMATION: //label= Modified
OTHER INFORMATION: /note= "Ala may be Pro"
US-08-931-820-4
Query Match 4.1%; Score 10; DB 3; Length 1057;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 60 GAGPEKGEKG 69
Db 680 GAGPEKGEKG 689
RESULT 14
US-08-963-825-21
Sequence 21, Application US/08963825
Patent No. 6110689
GENERAL INFORMATION:
APPLICANT: Qvist, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: in Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/963,825

FILING DATE:
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/187,319
FILING DATE: 21-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1078 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (III)
US-08-963-825-21
Query Match 4.1%; Score 10; DB 3; Length 1078;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 60 GAGPEKGEKG 69
Db 681 GAGPEKGEKG 690
RESULT 15
US-09-500-811-21
Sequence 21, Application US/09500811
Patent No. 6323314
GENERAL INFORMATION:
APPLICANT: Qvist, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: in Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/500,811
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,319
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687

;; INFORMATION FOR SEQ ID NO: 21:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1078 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; ORIGINAL SOURCE:
;; ORGANISM: Homo sapiens
;; IMMEDIATE SOURCE:
;; CLONE: COLLAGEN ALPHA 1 (III)
US-09-5001811-21

Query Match 4.1%; Score 10; DB 4; Length 1078;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 60 GAPGKGGEGG 69
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Db 681 GAPGKGGEGG 690

Search completed: June 20, 2003, 11:44:09
Job time : 21 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:42:09 ; Search time 24 Seconds
(without alignments)
1095.594 Million cell updates/sec

Title: US-09-944-403-42
Perfect score: 243
Sequence: 1 MRPLVLLILGLAAGSPPLD.....DSTFSGFLVYDMHSSPVFA 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 417779 seqs, 108206813 residues

Word size : 0
Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*

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14: /cgn2_6/prodata/2/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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3	243	100.0	243	9	US-09-944-896-42
4	243	100.0	243	9	US-09-944-944-42
5	243	100.0	243	9	US-09-944-907-42
6	243	100.0	243	9	US-09-944-929-42
7	243	100.0	243	9	US-10-028-072-362
8	243	100.0	243	9	US-10-121-049-362
9	243	100.0	243	9	US-10-123-904-362
10	243	100.0	243	9	US-10-140-470-362
11	243	100.0	243	9	US-09-796-753-68
12	243	100.0	243	9	US-10-176-918-362
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22	243	100.0	243	9	US-10-142-423-362	Sequence 362, App
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25	243	100.0	243	9	US-10-143-032-362	Sequence 362, App
26	243	100.0	243	9	US-10-123-108-362	Sequence 362, App
27	243	100.0	243	9	US-10-123-226-362	Sequence 362, App
28	243	100.0	243	9	US-10-123-261-362	Sequence 362, App
29	243	100.0	243	9	US-10-140-921-362	Sequence 362, App
30	243	100.0	243	9	US-10-140-928-362	Sequence 362, App
31	243	100.0	243	9	US-10-121-045-362	Sequence 362, App
32	243	100.0	243	9	US-10-123-292-362	Sequence 362, App
33	243	100.0	243	9	US-10-123-903-362	Sequence 362, App
34	243	100.0	243	9	US-10-124-819-362	Sequence 362, App
35	243	100.0	243	9	US-10-124-822-362	Sequence 362, App
36	243	100.0	243	9	US-10-140-925-362	Sequence 362, App
37	243	100.0	243	9	US-10-160-498-362	Sequence 362, App
38	243	100.0	243	9	US-09-944-884-42	Sequence 42, App
39	243	100.0	243	9	US-10-121-041-362	Sequence 362, App
40	243	100.0	243	9	US-10-121-043-362	Sequence 362, App
41	243	100.0	243	9	US-10-121-047-362	Sequence 362, App
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43	243	100.0	243	9	US-10-123-902-362	Sequence 362, App
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45	243	100.0	243	9	US-10-123-909-362	Sequence 362, App

ALIGNMENTS

RESULT 1
US-09-944-413-42
Sequence 42, Application US/09944413
Patent No. US20020156004A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 413
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US2002015604A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US2002015604A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/065520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-413-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 ARCEKGEGRPGPLPGPRGDPGRGAGAPPTGPAGECEVPPRSASFARSSESRVPPSD 120
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Db 121 APLPFDRLVNEQGHYDVTGKFTQCPGVYTFAYHATYTRASLQFDLVKNGESTASFPQ 180
Qy 181 FRGGMFKPASLSGAMVRLPEPDQWVQVGVGDYIGIYASIKTDSFSGFLYSDMHSR 240
Db 181 FRGGMFKPASLSGAMVRLPEPDQWVQVGVGDYIGIYASIKTDSFSGFLYSDMHSR 240
Qy 241 VFA 243
Db 241 VFA 243

RESULT 2
US-09-944-403-42
Sequence 42; Application US/09944403
Patent No. US20020165143A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998

;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
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;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
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;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
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;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-403-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPGTPGHHSOGLPGSDGRGRGCAAG 60
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DB 61 APEKEKGGRPGGLPGRGDPGPRGEAGPAGPTGPAGCSVPFRSAFSAKRSBSRVPSPD 120
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DB 121 AAPFPDRLVNEQGHDAVTKGTCCVPGVYFAVHATYTRASLODLYKNGESIASFPQ 180
QY 181 FPGWKPASLSGGMVRLPEPDQWVQVGDYIGIYASIKTDSIFSGFLVYSDWHSSP 240

Db 181 FPGWKPASLSGGMVRLPEPDQWVQVGDYIGIYASIKTDSIFSGFLVYSDWHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 3
US-09-944-896-42
Sequence 42, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kjaavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,896
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
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PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
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PRIOR APPLICATION NUMBER: 60/069,873
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PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998

PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-896-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202; Indels 0; Gaps 0;
Matches 243; Conservative 0; Mismatches 0;

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DB 1 MRLVLLGLAAGSPPLDNDKIPSLCFGHPGLPCTGHHGSGQLPGRDGRDGDGANG 60
QY 61 AFGEKGEGRPGLPGRGDPGRGEAGAPGPTGAGGCVPPRPSAFSAKRSRRVPPSPD 120
DB 61 AFGEKGEGRPGLPGRGDPGRGEAGAPGPTGAGGCVPPRPSAFSAKRSRRVPPSPD 120
QY 121 APPLPDRVAVNECGHDAVTGKFTCOVPGVYFAVHATYRSLQFDLVKNGESIASPFQ 180
DB 121 APPLPDRVAVNECGHDAVTGKFTCOVPGVYFAVHATYRSLQFDLVKNGESIASPFQ 180
QY 181 FFGGWEKPSLSCGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFGFLVYSWMHSP 240
DB 181 FFGGWEKPSLSCGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFGFLVYSWMHSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 4
US-09-944-944-42
Sequence 42, Application US/09944944
Patent No. US20020173463A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David

APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gunney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavyn, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Thmas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,944
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/216,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020173463A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-944-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAG 60
DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAG 60
QY 61 APGKGGGGRGRLGPRGDPGPRGAGPAGPTGAGCSVPRSAFSAKRSBSRVPPSPD 120
DB 61 APGKGGGGRGRLGPRGDPGPRGAGPAGPTGAGCSVPRSAFSAKRSBSRVPPSPD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYVFAVHATVYRASIQFDLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYVFAVHATVYRASIQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPRASISGGAMVRLPEEDOVWQVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
DB 181 FFGGMPKPRASISGGAMVRLPEEDOVWQVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 5

US-09-944-907-42
Sequence 42, Application US/09944907
Publication No. US20020198147A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Batstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferraro, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavini, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,907
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-907-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAG 60
DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAG 60
QY 61 APGKGGGGRGRLGPRGDPGPRGAGPAGPTGAGCSVPRSAFSAKRSBSRVPPSPD 120
DB 61 APGKGGGGRGRLGPRGDPGPRGAGPAGPTGAGCSVPRSAFSAKRSBSRVPPSPD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYVFAVHATVYRASIQFDLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYVFAVHATVYRASIQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPRASISGGAMVRLPEEDOVWQVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
DB 181 FFGGMPKPRASISGGAMVRLPEEDOVWQVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 6

US-09-944-929-42
Sequence 42, Application US/09944929
Publication No. US20020197612A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Batstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferraro, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavini, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,929
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT

ORGANISM: Homo Sapien
US-09-944-929-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7,9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPLPCTPGHSGOGLRGRDGRGRGARG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPLPCTPGHSGOGLRGRDGRGRGARG 60
QY 61 APGEKGEGRPGPLPGRGRDGPGRGEAGPAGPTGAGECVPPRSATSAKRSERVPSPD 120
DB 61 APGEKGEGRPGPLPGRGRDGPGRGEAGPAGPTGAGECVPPRSATSAKRSERVPSPD 120
QY 121 APPEPRVAVNEQGHYDAVTGKFTCVPGVYFAVAHATYRASLQFDLVNKGESIASFPQ 180
DB 121 APPEPRVAVNEQGHYDAVTGKFTCVPGVYFAVAHATYRASLQFDLVNKGESIASFPQ 180
QY 181 FPGGWPKPASISGAMVRLPEEDQVAVGVGDYITIGYIKTDSFSGFLVYSDWHSBP 240
DB 181 FPGGWPKPASISGAMVRLPEEDQVAVGVGDYITIGYIKTDSFSGFLVYSDWHSBP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 7
US-10-028-072-362
Sequence 362, Application US/10028072
Publication No. US20030004311A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OR INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028, 072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588

PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059836
PRIOR FILING DATE: 1997-09-24
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-10-24
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PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063561
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063704
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063735
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063738
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063755
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064248
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064809
PRIOR FILING DATE: 1997-11-07
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065846
PRIOR FILING DATE: 1997-11-17
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066453
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066511
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/079663
 PRIOR FILING DATE: 1998-02-27
 PRIOR APPLICATION NUMBER: 60/079728
 PRIOR FILING DATE: 1998-03-27
 PRIOR APPLICATION NUMBER: 60/080165
 PRIOR FILING DATE: 1998-03-31
 PRIOR APPLICATION NUMBER: 60/081203
 PRIOR FILING DATE: 1998-04-09
 PRIOR APPLICATION NUMBER: 60/081229
 PRIOR FILING DATE: 1998-04-09
 PRIOR APPLICATION NUMBER: 60/081695
 PRIOR FILING DATE: 1998-04-14
 PRIOR APPLICATION NUMBER: 60/081817
 PRIOR FILING DATE: 1998-04-15
 PRIOR APPLICATION NUMBER: 60/081818
 PRIOR FILING DATE: 1998-04-15
 PRIOR APPLICATION NUMBER: 60/082999
 PRIOR FILING DATE: 1998-04-24
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/083545
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084627
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084637
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/085149
 PRIOR FILING DATE: 1998-05-12
 PRIOR APPLICATION NUMBER: 60/085323
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085338
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085339
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085579
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085704
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/086414
 PRIOR FILING DATE: 1998-05-22
 PRIOR APPLICATION NUMBER: 60/086430
 PRIOR FILING DATE: 1998-05-22
 PRIOR APPLICATION NUMBER: 60/087106
 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/088026
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088730
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088741
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088810
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088858
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/089332
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/090349
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090429
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090445

PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090538
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 243; DB 9; Length 243;
 Best Local Similarity 100.0%; Pred. No. 7.9e-202;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAASPPLDNDKRTSLCPGHGLPPTPCPHHSGGLPGHGRDGRGAPG 60
 DB 1 MRPLVLLLLGLAASPPLDNDKRTSLCPGHGLPPTPCPHHSGGLPGHGRDGRGAPG 60
 QY 61 APGEKGEGRPGLPGRGDPGRGEGAPGPTGAGECSVPPRSARSESRRVPPSD 120
 DB 61 APGEKGEGRPGLPGRGDPGRGEGAPGPTGAGECSVPPRSARSESRRVPPSD 120
 QY 121 APPLPFDRLVINEQGHDAVTGKFTCVPCVYTFVAHATYTRASLQFDLVNNGESIASFQ 180
 DB 121 APPLPFDRLVINEQGHDAVTGKFTCVPCVYTFVAHATYTRASLQFDLVNNGESIASFQ 180
 QY 181 FFGGMPKPSLSGGANVRLEPEHQVWVGVDYIGIVASIKDSTFFSGFLVYSDMHSSP 240
 DB 181 FFGGMPKPSLSGGANVRLEPEHQVWVGVDYIGIVASIKDSTFFSGFLVYSDMHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 8

US-10-121-049-362
 Sequence 362, Application US/10121049
 Publication No. US20030022239A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeForge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary B.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P330R1C17
 CURRENT APPLICATION NUMBER: US/10/121,049
 CURRENT FILING DATE: 2002-04-12
 PRIOR Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 362
 LENGTH: 243
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-121-049-362

Query Match

100.0%; Score 243; DB 9; Length 243;

Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
QY 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
DB 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
QY 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
DB 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
QY 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
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RESULT 9

US-10-123-904-362
; Sequence 362, Application US/10123904
; Publication No. US20030022338A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123, 904
CURRENT FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
QY 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
DB 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
QY 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
DB 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
```

DB 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180

QY 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240

DB 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240

QY 241 VFA 243

DB 241 VFA 243

RESULT 10

US-10-140-470-362
; Sequence 362, Application US/10140470
; Publication No. US20030022331A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C160
CURRENT APPLICATION NUMBER: US/10/140, 470
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-470-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHSQGLPRDGRDGDGAPG 60
QY 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
DB 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTGAGCSVPPRSAPSAKRSRRVPPSP 120
QY 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
DB 121 APLPFDRLVNVBQGHYDAVTGKFTQVPGVYFAVHATVYRASLOFDLVKNGESIASFPQ 180
QY 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKPASISGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
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RESULT 11
US-09-796-753-68

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; Sequence 68, Application US/09796753
; Publication No. US20030027998A1
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-227-999
; CURRENT APPLICATION NUMBER: US/09/796,753
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 09/183,175
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 09/223,094
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/223,546
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/224,246
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/259,388
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/122,458
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 09/312,359
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/336,536
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 09/342,687
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 09/345,464
; PRIOR FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: 09/365,164
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/399,723
; PRIOR FILING DATE: 1999-09-20
; PRIOR APPLICATION NUMBER: 09/409,634
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 09/471,179
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 09/474,071
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/474,072
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/514,010
; PRIOR FILING DATE: 2000-02-25
; PRIOR APPLICATION NUMBER: 09/516,745
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/572,002
; PRIOR FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: 09/597,993
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 09/599,596
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: 09/630,334
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 09/606,565
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/606,317
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/665,666
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: 09/677,751
; PRIOR FILING DATE: 2000-09-30
; NUMBER OF SEQ ID NOS: 162
; SEQ ID NO 68
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-796-753-68
Query Match      100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPLVLLGLAAGSPPLDNNKIPSLCPGHGPGTPTGHHGSGQLPGRDGRDGRDGAAG 60
|||||

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Db 1 MRPLVLLGLAAGSPPLDNNKIPSLCPGHGPGTPTGHHGSGQLPGRDGRDGRDGAAG 60
QY 61 APEKKEGGRRPGLPGRGDPGPRGEGAPGPTGPAECGVPPRSASAKRSERVPSPD 120
|||
Db 61 APEKKEGGRRPGLPGRGDPGPRGEGAPGPTGPAECGVPPRSASAKRSERVPSPD 120
QY 121 APLPFRVLYNEGGHDAVTGKFTCOVPGVYFAVATYVRASLQFDLVNKGESIASFFQ 180
|||
Db 121 APLPFRVLYNEGGHDAVTGKFTCOVPGVYFAVATYVRASLQFDLVNKGESIASFFQ 180
QY 181 FFGWMPKPASLSGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFFSGFLVYSDWHSSP 240
|||
Db 181 FFGWMPKPASLSGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFFSGFLVYSDWHSSP 240
QY 241 VFA 243
|||
Db 241 VFA 243

RESULT 12
US-10-175-746-362
; Sequence 362, Application US/10175746
; Publication No. US20030027270A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerltsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330301C33
; CURRENT APPLICATION NUMBER: US/10/175,746
; CURRENT FILING DATE: 2002-06-19
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-175-746-362
Query Match      100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPLVLLGLAAGSPPLDNNKIPSLCPGHGPGTPTGHHGSGQLPGRDGRDGRDGAAG 60
Db 1 MRPLVLLGLAAGSPPLDNNKIPSLCPGHGPGTPTGHHGSGQLPGRDGRDGRDGAAG 60
QY 61 APEKKEGGRRPGLPGRGDPGPRGEGAPGPTGPAECGVPPRSASAKRSERVPSPD 120
|||
Db 61 APEKKEGGRRPGLPGRGDPGPRGEGAPGPTGPAECGVPPRSASAKRSERVPSPD 120
QY 121 APLPFRVLYNEGGHDAVTGKFTCOVPGVYFAVATYVRASLQFDLVNKGESIASFFQ 180
|||
Db 121 APLPFRVLYNEGGHDAVTGKFTCOVPGVYFAVATYVRASLQFDLVNKGESIASFFQ 180
QY 181 FFGWMPKPASLSGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFFSGFLVYSDWHSSP 240
|||
Db 181 FFGWMPKPASLSGAMVRLPEPDQVWVGVGDYIGIVASIKTDSFFSGFLVYSDWHSSP 240

```


QY 241 VFA 243
 Db 241 VFA 243

RESULT 13

US-10-176-918-362
 ; Sequence 362, Application US/10176918
 ; Publication No. US20030027275A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P33081C382
 ; CURRENT FILING DATE: 2002-06-20
 ; Prior Application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 362
 ; LENGTH: 243
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-10-176-918-362

Query Match 100.0%; Score 243; DB 9; Length 243;
 Best Local Similarity 100.0%; Pred. No. 7.9e-202; Indels 0; Gaps 0;
 Matches 243; Conservative 0; Mismatches 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGRDGAAG 60
 Db 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGRDGAAG 60
 QY 61 APGEKGGRRPGLPGRGDPGPRGAGPAGTGPAGGCCVPPRSASFARSESRRVPPSD 120
 Db 61 APGEKGGRRPGLPGRGDPGPRGAGPAGTGPAGGCCVPPRSASFARSESRRVPPSD 120
 QY 121 APLEPRVLVNEQGHYDAVTGKFTCOVPGVYFAVAATYRASLOFDLVNKGESIASFFQ 180
 Db 121 APLEPRVLVNEQGHYDAVTGKFTCOVPGVYFAVAATYRASLOFDLVNKGESIASFFQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDWHSPP 240
 Db 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDWHSPP 240
 QY 241 VFA 243
 Db 241 VFA 243

RESULT 14

US-10-176-921-362
 ; Sequence 362, Application US/10176921
 ; Publication No. US20030027276A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P33081C288
 ; CURRENT FILING DATE: 2002-06-20
 ; Prior Application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 362
 ; LENGTH: 243
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-10-176-921-362

Query Match 100.0%; Score 243; DB 9; Length 243;
 Best Local Similarity 100.0%; Pred. No. 7.9e-202; Indels 0; Gaps 0;
 Matches 243; Conservative 0; Mismatches 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGRDGAAG 60
 Db 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGRDGAAG 60
 QY 61 APGEKGGRRPGLPGRGDPGPRGAGPAGTGPAGGCCVPPRSASFARSESRRVPPSD 120
 Db 61 APGEKGGRRPGLPGRGDPGPRGAGPAGTGPAGGCCVPPRSASFARSESRRVPPSD 120
 QY 121 APLEPRVLVNEQGHYDAVTGKFTCOVPGVYFAVAATYRASLOFDLVNKGESIASFFQ 180
 Db 121 APLEPRVLVNEQGHYDAVTGKFTCOVPGVYFAVAATYRASLOFDLVNKGESIASFFQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDWHSPP 240
 Db 181 FFGGMPKPASLSGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDWHSPP 240
 QY 241 VFA 243
 Db 241 VFA 243

RESULT 15

US-10-137-865-362
 ; Sequence 362, Application US/10137865
 ; Publication No. US20030032155A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:40:05 ; Search time 21 Seconds

(without alignments)
1112.413 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 243

Sequence: 1 MRPLVILLGLGAGSPPLD.....DSTFGFLVSDWHSPPVFA 243.

Scoring table: OLIGO

Searched: 283224 seqs, 96134422 residues

Word size: 0

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database: PIR 73:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	219	90.1	219	2 T14782	hypothetical prote
2	11	4.5	289	2 T14782	hypothetical prote
3	11	4.5	369	2 S33603	surfactant protein
4	11	4.5	374	1 A42046	surfactant protein
5	11	4.5	375	1 A45225	surfactant protein
6	11	4.5	1670	1 CGH038	collagen alpha 3(I)
7	11	4.5	2944	2 A54849	collagen alpha 1(IV)
8	10	4.1	210	2 B44984	collagen - nematod
9	10	4.1	247	1 LNRBPS	pulmonary surfacta
10	10	4.1	248	1 LNRHUP	pulmonary surfacta
11	10	4.1	248	1 LNRHUP	pulmonary surfacta
12	10	4.1	248	1 LNRHUP	pulmonary surfacta
13	10	4.1	248	1 LNRHUP	pulmonary surfacta
14	10	4.1	248	1 LNRHUP	pulmonary surfacta
15	10	4.1	248	2 A48853	pulmonary surfacta
16	10	4.1	447	2 T42987	hypothetical prote
17	10	4.1	547	2 A36046	collagen alpha cha
18	10	4.1	694	2 H95012	hypothetical prote
19	10	4.1	702	2 C97884	hypothetical prote
20	10	4.1	812	2 S31521	collagen COL1-f
21	10	4.1	1049	1 CGB076	collagen alpha 1(I)
22	10	4.1	1464	1 S59856	collagen alpha 1(I)
23	10	4.1	1466	1 CGH07L	collagen alpha 1(I)
24	10	4.1	1761	2 T13990	collagen type IV a
25	10	4.1	2551	2 B98047	collagen alpha cha
26	9	3.7	126	2 S53786	collagen alpha cha
27	9	3.7	246	2 S83344	CDE1-binding prote
28	9	3.7	265	2 G82013	capsule polysaccha
29	9	3.7	356	2 S16907	collagen alpha 1(I)

30	9	3.7	636	2 S41067	collagen alpha 1(I)
31	9	3.7	751	2 A49974	beta-amyloid precu
32	9	3.7	765	2 S42880	amyloid precursor
33	9	3.7	964	1 CGCH2S	collagen alpha 2(I)
34	9	3.7	1402	2 T46707	translation initia
35	9	3.7	1669	1 CGMS48	collagen alpha 1(I)
36	9	3.7	1752	2 A45407	collagen alpha 3(I)
37	9	3.7	2288	2 T29999	hypothetical prote
38	8	3.3	46	2 T65268	collagen alpha 1(I)
39	8	3.3	52	2 C83241	hypothetical prote
40	8	3.3	87	2 H31482	hypothetical prote
41	8	3.3	149	2 B82017	probable integral
42	8	3.3	149	2 B81002	conserved hypothet
43	8	3.3	164	2 S76920	hypothetical prote
44	8	3.3	170	2 S74248	antibacterial pept
45	8	3.3	170	2 I38932	CAP18 precursor -

ALIGNMENTS

RESULT 1

T14782 hypothetical protein DKFZp586B0621.1 - human (fragment)

C:Species: Homo sapiens (man)

C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 02-Sep-2000

C:Accession: T14782

R:Ottewill, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.

submitted to the Protein Sequence Database, August 1999

A:Reference number: Z18184

A:Accession: T14782

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-219 <OT>

A:Cross-references: EMBL:AL110261

A:Experimental source: adult uterus; clone DKFZp586B0621

C:Genetics:

A:Note: DKFZp586B0621.1

C:Superfamily: complement C1q carboxyl-terminal homology

Query Match 90.1%; Score 219; DB 2; Length 219;
Best Local Similarity 100.0%; Pred. No. 1.5e-199;
Matches 219; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	25	PSLCGHPGLRCPGHHSGGLPGDGDGDGAPGARGEGGRRLPGPRGDPGRG	84
DB	1	PSLCGHPGLRCPGHHSGGLPGDGDGDGAPGARGEGGRRLPGPRGDPGRG	60
QY	85	EAGPAGPTGPAEGECVPPRSAPSAKRSRRVPPSDALPFDRLVNEQGHDAVYGKFT	144
DB	61	EAQPAQPTGPAEGECVPPRSAPSAKRSRRVPPSDALPFDRLVNEQGHDAVYGKFT	120
QY	145	CVPGVYFAVAHATVYRASLQFDLVKNGESIASFPQFGGMPKPSISGGMVRLBPDO	204
DB	121	CVPGVYFAVAHATVYRASLQFDLVKNGESIASFPQFGGMPKPSISGGMVRLBPDO	180
QY	205	VWVGVDGYIGIVASIKTDSFGFLVSDWHSPPVFA	243
DB	181	VWVGVDGYIGIVASIKTDSFGFLVSDWHSPPVFA	219

RESULT 2

T14241 hypothetical protein F26F12.1 - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 21-Jan-2000

C:Accession: T14241

R:Wilson, R.; Bentley, D.; Gattung, S.

submitted to the EMBL Data Library, April 1996

A:Description: The sequence of C. elegans coemid F26F12.

A:Reference number: Z21493

A:Accession: T14241

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA
 A:Residues: 1-289 <MIL>
 A:Cross-references: EMBL:U55373; PIDN:AA025888.1; GSPDB:GN00023; CESP:F26F12.1
 A:Experimental source: strain Bristol N2; clone F26F12
 C:Genetics:
 A:Gene: CESP:F26F12.1
 A:Map position: 5
 A:Introns: 45/3
 C:Superfamily: unassigned collagens

Query Match 4.5%; Score 11; DB 2; Length 289;
 Best Local Similarity 100.0%; Pred. No. 0.016;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 80 PGPRGAGPAG 90
 |||||
 Db 222 PGPRGAGPAG 232

RESULT 3
 S33603
 surfactant protein D - bovine
 C:Species: Bos primigenius taurus (cattle)
 C>Date: 02-Dec-1993 #sequence_revision 01-Sep-1995 #text_change 17-Mar-1999
 C:Accession: S33603
 R:Lim, B.L.; Lu, J.; Reid, K.B.M.
 Immunology 78, 159-165, 1993
 A:Title: Structural similarity between bovine conglutinin and bovine lung surfactant protein D
 A:Reference number: S33603; MUID:93170856; PMID:8436402
 A:Accession: S33603
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-369 <LIM>
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 F:248-367/Domain: C-type lectin homology <LCH>

Query Match 4.5%; Score 11; DB 2; Length 369;
 Best Local Similarity 100.0%; Pred. No. 0.02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGR 55
 |||||
 Db 46 GLPGRDGR 56

RESULT 4
 A42046
 surfactant protein D - rat
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
 C:Accession: A42046
 R:Shimizu, H.; Fisher, J.H.; Papst, P.; Benson, B.; Lau, K.; Mason, R.J.; Voelker, D.R.
 J. Biol. Chem. 267, 1853-1857, 1992
 A:Title: Primary structure of rat pulmonary surfactant protein D. cDNA and deduced amino acid sequence
 A:Reference number: A42046; MUID:92112913; PMID:1370483
 A:Accession: A42046
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-374 <SHI>
 A:Cross-references: GB:M01231; NID:9207035; PIDN:AAA42170.1; PID:9207036
 A:Experimental source: lung
 A>Note: sequence extracted from NCBI backbone (NCBI:76027, NCBI:76031)
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 F:253-372/Domain: C-type lectin homology <LCH>

Query Match 4.5%; Score 11; DB 1; Length 374;
 Best Local Similarity 100.0%; Pred. No. 0.02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGR 55
 |||||
 Db 45 GLPGRDGR 55

RESULT 5
 A45225
 pulmonary surfactant protein D precursor - human
 N:Alternate names: SP-D
 C:Species: Homo sapiens (man)
 C>Date: 16-Apr-1999 #sequence_revision 16-Apr-1999 #text_change 22-Jun-1999
 C:Accession: A45225; S23434; S24555; S44420; S18382; A56776
 R:Crouch, E.; Rust, K.; Veille, R.; Doms-Keller, H.; Grosso, L.
 J. Biol. Chem. 268, 2976-2983, 1993
 A:Title: Genomic organization of human surfactant protein D (SP-D). SP-D is encoded by a single gene
 A:Reference number: A45225; MUID:93155122; PMID:8428971
 A:Accession: A45225
 A:Molecule type: DNA
 A:Residues: 1-375 <CRO>
 A:Cross-references: GB:L05483; GB:L05484; GB:L05485; NID:9292505; PIDN:AA059450.1; PI
 A:Experimental source: placenta
 A:Note: sequence extracted from NCBI backbone (NCBI:124316)
 R:Lu, J.; Willis, A.C.; Reid, K.B.M.
 Biochem. J. 284, 795-802, 1992
 A:Title: Purification, characterization and cDNA cloning of human lung surfactant protein D
 A:Reference number: S23434; MUID:92322003; PMID:1339284
 A:Accession: S23434
 A:Molecule type: mRNA
 A:Residues: 1-375 <CRO>
 A:Cross-references: EMBL:X65018; NID:934766; PIDN:CAA6152.1; PID:934767
 A:Experimental source: lung
 A:Accession: S24555
 A:Molecule type: protein
 A:Residues: 214-234, 'X', 236, 'XX', 239-241 <LU02>
 R:Hoppe, H.J.; Barlow, P.N.; Reid, K.B.M.
 FEBS Lett. 344, 191-195, 1994
 A:Title: A parallel three stranded alpha-helical bundle at the nucleation site of col
 A:Reference number: S44420; MUID:94244769; PMID:8187882
 A:Accession: S44420
 A:Molecule type: mRNA
 A:Residues: 202-257 <HOP>
 R:Rust, K.; Grosso, L.; Zhang, V.; Chang, D.; Persson, A.; Longmore, W.; Cai, G.Z.; C
 Arch. Biochem. Biophys. 290, 116-126, 1991
 A:Title: Human surfactant protein D: SP-D contains a C-type lectin carbohydrate recog
 A:Reference number: S18382; MUID:91378578; PMID:1898081
 A:Accession: S18382
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 'P', 60-205, 'P', 207-374, 'HR', <RUS>
 A:Cross-references: GB:L05485; NID:9292505
 A:Note: corrections to this sequence are reported in reference A56776
 R:Crouch, E.; Persson, A.; Chang, D.
 Am. J. Pathol. 142, 241-248, 1993
 A:Title: Accumulation of surfactant protein D in human pulmonary alveolar proteinosis
 A:Reference number: A56776; MUID:93142849; PMID:8424457
 A:Accession: A56776
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 46-58, 'P', 60-62, 'E', 64-72, 223-227, 'X', 229-239, 'P', 241-245, 'X', 247-256, 'X'
 A:Cross-references: PIDN:AA025037.1; PID:9263973; PIDN:AA025038.1; PID:9263974
 A:Experimental source: bronchoalveolar lavage
 A:Note: sequence extracted from NCBI backbone (NCBI:123024, NCBI:123023); sequence
 C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lower
 C:Comment: This protein is synthesized by alveolar type II cells.
 C:Genetics:
 A:Gene: GDB:SFTPD; SFTPD; SP-D
 A:Cross-references: GDB:132674; OMIM:178635
 A:Map position: 10q22.2-10q23.1
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 C:Keywords: blocked amino end; calcium; glycoprotein; hydroxyllysine; hydroxyproline;
 F:1-20/Domain: signal sequence #status predicted <SIG>
 F:21-375/Product: pulmonary surfactant protein D #status predicted <MAR>
 F:21-45/Domain: non-collagenous #status predicted <NC1>
 F:46-222/Domain: collagenous #status predicted <COL>
 F:223-375/Domain: non-collagenous #status predicted <NC2>
 F:254-373/Domain: C-type lectin homology <LCH>
 F:90/Binding site: carbohydrate (Asn) (covalent) #status predicted

F:281-373,351-365/Disulfide bonds: #status predicted

Query Match

Best Local Similarity 100.0%; Pred. No. 0.021; Length 375;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDGR 55

DB 46 GLPGRDGRDGR 56

RESULT 6

CGHUB

collagen alpha 3(IV) chain precursor, long splice form - human

N:Alternate names: Goodpasture antigen, procollagen alpha 3(IV) chain long splice form

C:Species: Homo sapiens (man)

C:Date: 28-Oct-1994 #sequence revision 03-Oct-1995 #text_change 22-Jun-1999

C:Accession: A54763; A43928; A44043; A45971; A39786

R:Matryama, M.; Leinonen, A.; Koochikukl, T.; Tyrgysvason, K.; Reeders, S.T.

J. Biol. Chem. 269, 23013-23017, 1994

A:Title: Complete primary structure of the human alpha3(IV) collagen chain. Coexpression

A:Reference number: A54763; MUID:94364994; PMID:8083201

A:Accession: A54763

A:Molecule type: mRNA

A:Residues: 1-1670 <MAR>

A:Cross-references: GB:X80031; NID:9577563; PID:9577564

A:Experimental source: Kidney

R:Turner, N.; Mason, P.J.; Brown, R.; Fox, M.; Povey, S.; Rees, A.; Pusey, C.D.

J. Clin. Invest. 89, 592-601, 1992

A:Title: Molecular cloning of the human Goodpasture antigen demonstrates it to be the al

A:Reference number: A43928; MUID:92147878; PMID:1737849

A:Accession: A43928

A:Molecule type: mRNA

A:Residues: 1331-1524, 'I', 1526-1670 <TUR>

A:Cross-references: GB:M81379

A:Experimental source: Kidney

R:Quinones, S.; Bernal, D.; Garcia-Sogo, M.; Elena, S.F.; Saus, J.

J. Biol. Chem. 267, 19780-19784, 1992

A:Title: Exon/intron structure of the human alpha 3(IV) gene encompassing the Goodpastur

A:Reference number: A44043; MUID:93015826; PMID:1400291

A:Accession: A44043

A:Molecule type: DNA; mRNA

A:Residues: 1386-1670 <OUT>

A:Cross-references: GB:M82993; NID:9177895; PIDN:AAA21610.1; PID:9177896

A>Note: Sequence extracted from NCBI backbone (NCBI:P115597)

R:Quinones, S.; Bernal, D.; Garcia-Sogo, M.; Elena, S.F.; Saus, J.

J. Biol. Chem. 269, 17358, 1994

A:Reference number: A44738; MUID:94274734; PMID:8006044

A:Contents: annotation; erratum; correction to intronic sequence in A44043

R:Bernal, D.; Quinones, S.; Saus, J.

J. Biol. Chem. 268, 12090-12094, 1993

A:Title: The human mRNA encoding the Goodpasture antigen is alternatively spliced.

A:Reference number: A45971; MUID:93280184; PMID:8505332

A:Accession: A45971

A:Molecule type: mRNA

A:Status: nucleic acid sequence not shown

A:Residues: 1427-1444 <BBR>

A>Note: Sequence extracted from NCBI backbone (NCBI:P133363); sequence incorrectly ident

R:Morrisson, K.E.; Matryama, M.; Yang-Feng, T.L.; Reeders, S.T.

Am. J. Hum. Genet. 49, 545-554, 1991

A:Title: Sequence and localization of a partial cDNA encoding the human alpha3 chain of

A:Reference number: A39786; MUID:91355570; PMID:1862840

A:Accession: A39786

A:Molecule type: mRNA

A:Residues: 1453-1593, 'A', 1595-1670 <WOR>

A:Cross-references: GB:S55790; NID:9234418; PIDN:AA19637.1; PID:9234419

C:Comment: Prolines and lysines at the third position of the tripeptide repeating unit

ed and subsequently O-glycosylated.

C:Comment: In Goodpasture's syndrome, an autoimmune response develops against an epitope

C:Genetics:

A:Gene: GDB:COL4A3

A:Cross-references: GDB:128351; OMIM:120070

A:Map position: 2q36-2q37

A:Introns: 1385/1, 1418/1, 1488/1, 1547/2, 1585/3, 1643/2 #status incomplete

C:Complex: The alpha 3(IV) and alpha 4(IV) chain genes are encoded on opposite strands

A>Note: This minor type IV collagen is thought to form a heterotrimer of two alph

mong trimer amino-terminal domains (with disulfide and desmosine cross-links), dimer

er associations in the interrupted helical domain (with disulfide and desmosine cross

A:Description: minor structural component of extracellular basement membrane in kidn

C:Superfamily: collagen alpha 1(IV) chain

C:Keywords: alternative splicing; basement membrane; cell binding; coiled coil; extr

F:1-28/Domain: signal sequence #status predicted <SIG>

F:29-1670/Product: collagen alpha 3(IV) chain, long splice form #status predicted <V

F:29-42/Domain: amino-terminal nonhelical, NHI <NHI>

F:43-1438/Region: interrupted helical

F:701-793/Region: cell attachment (R-G-D) motif

F:996-998/Region: cell attachment (R-G-D) motif

F:1154-1156/Region: cell attachment (R-G-D) motif

F:1306-1308/Region: cell attachment (R-G-D) motif

F:1345-1347/Region: cell attachment (R-G-D) motif

F:1432-1434/Region: cell attachment (R-G-D) motif

F:1439-1670/Domain: carboxyl-terminal nonhelical, NCI <NCI>

F:1451-1551/Domain: collagen IV carboxyl-terminal repeat <CT1>

F:1561-1665/Domain: collagen IV carboxyl-terminal repeat <CT2>

F:31-33,39-41,125-422,476-479,682-722,809,1387/Disulfide bonds: interchain #status r

F:253/Binding site: carboxylate (Asn) (covalent) #status predicted

F:1460-1548,1493-1551/Disulfide bonds: (or 1460-1551, 1493-1548) #status predicted

F:1505-1511,1616-1622/Disulfide bonds: #status predicted

F:1570-1662,1604-1665/Disulfide bonds: (or 1570-1665, 1604-1662) #status predicted

Query Match

Best Local Similarity 4.5%; Score 11; DB 1; Length 1670;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 PGLPGRDGRDGR 81

DB 1300 PGLPGRDGRDGR 1310

RESULT 7

A54849

collagen alpha 1(VII) chain precursor - human

N:Alternate names: procollagen alpha 1(VII) chain

C:Species: Homo sapiens (man)

C:Date: 04-Nov-1994 #sequence revision 04-Nov-1994 #text_change 20-Sep-1999

C:Accession: A54849; PH0844; S16316; S16328; A30296; I81686

R:Christiano, A.M.; Greenspan, D.S.; Lee, S.; Uitto, J.

J. Biol. Chem. 269, 20256-20262, 1994

A:Title: Cloning of human type VII collagen. Complete primary sequence of the alpha1

A:Reference number: A54849; MUID:94327588; PMID:8051117

A:Accession: A54849

A:Molecule type: mRNA

A:Status: not compared with conceptual translation

A:Residues: 1-2944 <CHR>

A:Cross-references: GB:L02870; NID:9987124; PIDN:AAA75438.1; PID:9987125

R:Tanaka, T.; Takahashi, K.; Furukawa, F.; Imamura, S.

Biochem. Biophys. Res. Commun. 183, 958-963, 1992

A:Title: Molecular cloning and characterization of type VII collagen cDNA.

A:Reference number: PH0844; MUID:92231902; PMID:1567409

A:Accession: PH0844

A:Molecule type: mRNA

A:Residues: 'EPR', 340-475, 'RALSTASHSTLCWARTRMHPCNRGSHWRPAACPCNRPSRAAAG', 524-528,

A:Cross-references: DBJ:D11152; DBJ:D13694; NID:9453698; PIDN:BA02853.1; PID:9453

A:Experimental source: keratinocyte

R:Parente, W.G.; Chung, L.C.; Rymmen, J.; Woodley, D.T.; Wynn, K.C.; Bauer, E.A.

Proc. Natl. Acad. Sci. U.S.A. 88, 6931-6935, 1991

A:Title: Human type VII collagen: cDNA cloning and chromosomal mapping of the gene.

A:Reference number: S16316; MUID:91334380; PMID:1871109

A:Accession: S16316

A:Molecule type: mRNA

A:Residues: 815-892, 'E', 894-1439 <PAR>

A:Cross-references: GB:M6518; GB:S49017; NID:9180914; PIDN:AAA96439.1; PID:9180915

A:Experimental source: keratinocyte

R:Gammon, W.R.; Abernethy, M.L.; Padilla, K.M.; Prisyach, P.S.; Cook, M.E.; Wright, J.
 J. Invest. Dermatol. 99, 691-696, 1992
 A:Title: Noncollagenous (NC1) domain of collagen VII resembles multidomain adhesion prot
 A:Reference number: 156328; MUID:93107742; PMID:1469284
 A:Accession: 156328
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 'ERR', 372-517, 'DV', 520-540, 'W', 542-1255 <RBS>
 A:Cross-references: GB:S51236; NID:9262309; PID:AA24637.1; PID:9262309
 R:Selzer, J.L.; Bisen, A.Z.; Bauer, E.A.; Morris, N.P.; Glanville, R.W.; Burgeson, R.E.
 J. Biol. Chem. 264, 3822-3826, 1989
 A:Title: Cleavage of type VII collagen by interstitial collagenase and type IV collagen
 A:Reference number: A02936; MUID:89139437; PMID:2537292
 A:Accession: A02936
 A:Molecule type: Protein
 A:Residues: 'A', 1240-1246, 'G', 1248-1250, 'XE', 1253-1255, 'Q', 1257, 'E', 2032, 'C', 2034-2041;
 A>Note: two reported peptides cannot be reliably located
 R:Greenspan, D.S.
 Hum. Mol. Genet. 2, 273-278, 1993
 A:Title: The carboxyl-terminal half of type VII collagen, including the non-collagenous
 A:Reference number: 148103; MUID:93271985; PMID:8499916
 A:Accession: 184686
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 2395-2871, 'S', 2873-2944 <R2>
 A:Cross-references: GB:L06862; NID:9388713; PID:AAA89196.1; PID:9388714
 R:Christiano, A.M.; Rymaszewski, M.; Uitto, J.
 Proc. Natl. Acad. Sci. U.S.A. 91, 3549-3553, 1994
 A:Title: Dominant dystrophic epidermolysis bullosa: identification of a Gly --> Ser subs
 A:Reference number: A55255; MUID:94224777; PMID:8170945
 A:Contents: annotation
 A:Comment: Prolines and lysines at the third position of the tripeptide repeating unit
 C:Genetics:
 A:Gene: GDB:COL7A1; EBR1; EBD1; EB
 A:Cross-references: GDB:128750; OMIM:120120
 A:Map position: 3p21.3-3p21.3
 A>Note: defects in this gene can result in dominant and recessive dystrophic epidermolys
 A:Note: there are 118 introns
 C:Complex: type VII collagen is probably a homotrimer
 C:Function:
 A:Description: structural component of extracellular polymer associated with anchoring f
 C:Superfamily: unassigned collagens; animal knittz-type proteinase inhibitor homology; f
 C:Keywords: coiled coil; extracellular matrix; glycoprotein; hydroxylysine; hydroxyproli
 F:1-16/Domain: signal sequence #status predicted <SIG>
 F:17-2944/Product: collagen alpha 1(VII) chain #status predicted <MAT>
 F:17-1253/Domain: amino-terminal nonhelical #status predicted <NC1>
 F:36-201/Domain: von Willebrand factor type A repeat homology <VWA1>
 F:231-318/Domain: fibronectin type III repeat homology <FN1>
 F:327-413/Domain: fibronectin type III repeat homology <FN2>
 F:414-502/Domain: fibronectin type III repeat homology <FN3>
 F:508-593/Domain: fibronectin type III repeat homology <FN4>
 F:598-683/Domain: fibronectin type III repeat homology <FN5>
 F:686-771/Domain: fibronectin type III repeat homology <FN6>
 F:776-867/Domain: fibronectin type III repeat homology <FN7>
 F:864-952/Domain: fibronectin type III repeat homology <FN8>
 F:954-1045/Domain: fibronectin type III repeat homology <FN9>
 F:1052-1219/Domain: von Willebrand factor type A repeat homology <VWA2>
 F:1170-1172/Region: cell attachment (R-G-D) motif
 F:1189-1253/Region: cysteine/proline-rich
 F:1254-2783/Region: interrupted helical
 F:1334-1336/Region: cell attachment (R-G-D) motif
 F:2008-2010/Region: cell attachment (R-G-D) motif
 F:2553-2555/Region: cell attachment (R-G-D) motif
 F:2784-2944/Domain: carboxyl-terminal nonhelical #status predicted <NC2>
 F:2876-2929/Domain: animal knittz-type proteinase inhibitor homology <BPI>
 F:2876-2929/Domain: animal knittz-type proteinase inhibitor homology <BPI>
 F:2167, 2176, 2188, 2664, 2667, 2673/Modified sites: 4-hydroxyproline (Pro) #status exper
 F:2625, 2631/Modified site: 5-hydroxylysine (Lys) #status experimental
 F:2625, 2631/Binding site: carboxylate (Lys) (covalent) #status experimental
 F:2634, 2802, 2804/Disulfide bonds: interchain #status predicted

Query Match

4.5%; Score 11; DB 2; Length 2944;

Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 71 GGLPGRGDRG 81
 DB 1328 GGLPGRGDRG 1338

RESULT 8
 B44984
 collagen - nematode (Haemonchus contortus) (fragment)
 C:Species: Haemonchus contortus
 C>Date: 28-Apr-1993 #sequence_revision 28-Apr-1993 #text_change 07-May-1999
 C:Accession: B44984
 R:Shamshy, L.M.; Pratt, D.; Boisvenue, R.J.; Cox, G.N.
 Mol. Biochem. Parasitol. 37, 73-86, 1989
 A:Title: Cuticle collagen genes of Haemonchus contortus and Caenorhabditis elegans at
 A:Reference number: A44984; MUID:90136718; PMID:2615789
 A:Accession: B44984
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-210 <SHA>
 A:Cross-references: GB:U04671; GB:U04670
 C:Superfamily: unassigned collagens

Query Match 4.1%; Score 10; DB 2; Length 210;
 Best Local Similarity 100.0%; Pred. No. 0.11;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 GAPGAPGEGK 66
 DB 151 GAPGAPGEGK 160

RESULT 9

INRBS

pulmonary surfactant protein A precursor - rabbit
 N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associat
 C:Species: Oryctolagus cuniculus (domestic rabbit)
 C>Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999
 C:Accession: A29931

R:Bogaram, V.; Qiang, K.; Mendelson, C.R.
 J. Biol. Chem. 263, 2939-2947, 1988

A:Title: The major apoprotein of rabbit pulmonary surfactant. Elucidation of primary

A:Reference number: A29931; MUID:88139348; PMID:2830270
 A:Accession: A29931

A:Molecule type: mRNA
 A:Residues: 1-247 <BOG>

A:Cross-references: GB:U03542; NID:9165705; PID:AAA31465.1; PID:9165706
 A:Note: 12-Pro was also found

A:Note: the amino end of the mature protein is blocked
 C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lower
 C:Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells.
 A:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; g)
 F:1-15/Domain: signal sequence #status predicted <SIG>
 F:16-247/Product: pulmonary surfactant protein A #status predicted <MAT>

F:27-99/Region: collagen-like
 F:126-245/Domain: C-type lectin homology <LCH>
 F:16/Modified site: acetylated amino end (Ser) (in mature form) #status predicted
 F:206/Binding site: carboxylate (Asn) (covalent) #status predicted

Query Match 4.1%; Score 10; DB 1; Length 247;
 Best Local Similarity 100.0%; Pred. No. 0.13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54
 DB 39 GLPGRDGRDG 48

RESULT 10

LNHUP6

pulmonary surfactant protein A precursor (clone 6A) - human

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Homo sapiens (man)

C>Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

A:Accession: A25720

R:Floros, J.; Steinbrink, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Sultzman, L.

J. Biol. Chem. 261, 9029-9033, 1986

A:Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfactant

A:Reference number: A25720; MUID:86250832; PMID:3755136

A:Accession: A25720

A:Molecule type: mRNA

A:Residues: 1-248 <FLO>

A:CROSS-references: GB:M13686; NID:9190669; PIND:AA60211.1; PID:9190670

A>Note: part of the sequence was confirmed by protein sequencing

A>Note: clones corresponding to two different proteins were sequenced. Cotranslational m

C:Genetics:

A:Gene: GDB:SFTPA1; SFTPA1; SP-A; SP-A1

A:CROSS-references: GDB:119593; OMIM:178630

A:Map position: 10q22-10q23

C:Superfamily: mannose-binding lectin; C-type lectin homology

F:1-20/DNA: signal sequence #status predicted <SIG>

F:21-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F:127-246/DNA: C-type lectin homology <LCH>

F:30/33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status pred

F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

45 GLPGRGRDG 54

40 GLPGRGRDG 49

RESULT 11

LNHUP1

pulmonary surfactant protein A precursor (clone 1A) - human

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Homo sapiens (man)

C>Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

A:Accession: B25720

R:Floros, J.; Steinbrink, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Sultzman, L.

J. Biol. Chem. 261, 9029-9033, 1986

A:Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfactant

A:Reference number: A25720; MUID:86250832; PMID:3755136

A:Accession: B25720

A:Molecule type: mRNA

A:Residues: 1-248 <FLO>

A:CROSS-references: GB:K03475

A>Note: part of the sequence was confirmed by protein sequencing

A>Note: clones corresponding to two different proteins were sequenced. Cotranslational m

C:Genetics:

A:Gene: GDB:SFTPA1; SFTPA1; SP-A; SP-A1

A:CROSS-references: GDB:119593; OMIM:178630

A:Map position: 10q22-10q23

C:Superfamily: mannose-binding lectin; C-type lectin homology

F:1-20/DNA: signal sequence #status predicted <SIG>

F:21-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F:127-246/DNA: C-type lectin homology <LCH>

F:30/33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status pred

F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

45 GLPGRGRDG 54

40 GLPGRGRDG 49

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

45 GLPGRGRDG 54

40 GLPGRGRDG 49

Db

RESULT 12

LNDGPS

pulmonary surfactant protein A precursor - dog

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Canis lupus familiaris (dog)

C>Date: 30-Sep-1987 #sequence_revision 30-Sep-1987 #text_change 16-Jul-1999

A:Accession: A25296; A61227; A60142

R:Benson, B.; Hawgood, S.; Schilling, J.; Clements, J.; Damm, D.; Cordell, B.; Whit

Proc. Natl. Acad. Sci. U.S.A. 82, 6379-6383, 1985

A:Title: Structure of canine pulmonary surfactant apoprotein: cDNA and complete ami

A:Reference number: A25296; MUID:86016705; PMID:3863100

A:Accession: A25296

A:Molecule type: mRNA

A:Residues: 1-248 <BEN>

A>Note: the authors translated the codon TTG for residue 60 as Pro

A>Note: part of the sequence, including the amino end of the mature protein, was co

R:Liou, D.F.; Ryan, S.F.

Chem. Phys. Lipids 59, 29-38, 1991

A:Title: Purification of surfactant protein A from dog lung by reconstitution with

A:Reference number: A61227; MUID:92163993; PMID:1790579

A:Accession: A61227

A:Molecule type: protein

A:Residues: 18-32 <LTA>

R:Roos, G.F.; Meuth, J.; Ohning, B.; Kim, Y.; Whitsett, J.A.

Biochim. Biophys. Acta 870, 267-278, 1986

A:Title: Purification of canine surfactant-associated glycoproteins A. Identificati

A:Reference number: A60142; MUID:86159848; PMID:3006781

A:Accession: A60142

A:Molecule type: protein

A:Residues: 24-34;95-101, 'X', 103-108 <ROS>

R:Parthy, L.

Nature 325, 490, 1987

A:Reference number: A93388; MUID:87115834; PMID:3808053

A:Contents: annotation; animal lectin domain homology

C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that low

pendent on the presence of calcium ions.

C:Superfamily: mannose-binding lectin; C-type lectin homology

F:1-17/DNA: signal sequence #status predicted <SIG>

F:18-248/Product: pulmonary surfactant protein A #status experimental <MFR>

F:28-102/Region: collagen-like

F:127-246/DNA: C-type lectin homology <LCH>

F:20,207/Binding site: carbohydrate (Asn) (covalent) #status experimental

F:30/Modified site: 4-hydroxyproline (Pro) #status experimental

Query Match

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

45 GLPGRGRDG 54

40 GLPGRGRDG 49

Db

RESULT 13

LNRPDS

pulmonary surfactant protein A precursor - rat

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associ

C:Species: Rattus norvegicus (Norway rat)

C>Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

A:Accession: A29299; J050034; S23183

R:Sano, K.; Fisher, J.; Mason, R.J.; Kuraki, Y.; Schilling, J.; Benson, B.; Voelker

Biochem. Biophys. Res. Commun. 144, 367-374, 1987

A:Title: Isolation and sequence of a cDNA clone for the rat pulmonary surfactant-as

A:Reference number: A29299; MUID:87213191; PMID:3579914

A:Contents: 0.9 kb cDNA
 A:Accession: A29299
 A:Molecule type: mRNA
 A:Residues: 1-248 <SAS>
 A>Note: part of the sequence, including the amino end of the mature protein, was confirmed by R. Fisher, J.H.; Emrie, P.A.; Shannon, J.; Sano, K.; Hattler, B.; Mason, R.J.
 Biochem. Biophys. Acta 950, 338-345, 1988
 A>Title: Rat pulmonary surfactant protein A is expressed as two differently sized mRNA
 A:Reference number: J50034; MUID:89000785; PMID:2901856
 A:Contents: 1.6 kb cDNA
 A:Accession: J50034
 A:Molecule type: mRNA
 A:Residues: 1-248 <FIB>
 A>Note: the codons given for residues 78, 84, and 180 are inconsistent with the authors' Ribicaz-Mamontelli, T.; Fraston, C.; Boudon, J.; Raymondjean, M.; Kahn, A.
 Eur. J. Biochem. 206, 613-623, 1992
 A>Title: Characterization of the rat pulmonary surfactant protein A promoter.
 A:Reference number: S23183; MUID:92298987; PMID:1606951
 A:Accession: S23183
 A:Molecule type: DNA
 A:Residues: 1-33 <IAC>
 C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers the surface tension of the lung. This protein is a sialoglycoprotein synthesized by alveolar type II cells. It is dependent on the presence of calcium ions.
 C:Comment: Two species of mRNA, which probably are transcribed from a single gene, have been identified. Size heterogeneity of these proteins arises from posttranslational modification.
 C:Superfamily: mannose-binding lectin; C-type lectin homology
 C:Keywords: alveolar proteinosis; calcium; gaseous exchange; glycoprotein; hydroxyproline
 F:1-20/Domain: signal sequence #status predicted <SIG>
 F:21-248/Product: pulmonary surfactant protein A #status experimental, <MAT>
 F:37-109/Region: collagen-like
 F:127-246/Domain: C-type lectin homology <LCH>
 F:21/Binding site: carbohydrate (Asn) (covalent) #status absent
 F:30/33,36,42,54,57,63,67,70,76/Modified site: 4-hydroxyproline (Pro) #status: experiment
 F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 4.1%; Score 10; DB 1; Length 248;
 Best Local Similarity 100.0%; Pred. No. 0.13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
 |||||
 DB 40 GLPGRDGRDG 49

RESULT 14
 151921
 pulmonary surfactant-associated protein A1 - human
 N:Alternate names: SP-A1
 C:Species: Homo sapiens (man)
 C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 20-Aug-1999
 C:Accession: 151921
 R:Katyay, S.L.; Singh, G.; Locker, J.
 Am. J. Respir. Cell Mol. Biol. 6, 446-452, 1992
 A>Title: Characterization of a second human pulmonary surfactant-associated protein SP-A
 A:Reference number: 151921; MUID:92198680; PMID:1372511
 A:Accession: 151921
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-248 <RES>
 A:Cross-references: GB:M68519; NID:G338048; PIDN:AAA60319.1; PID:G338049
 C:Genetics:
 A:Gene: GDB:SFTPA1; SFTPA1; SP-A; SP-A1
 A:Cross-references: GDB:119593; OMIM:178630
 A:Map position: 10q22-10q23
 A:Introns: 58/1; 98/1; 124/1
 C:Superfamily: mannose-binding lectin; C-type lectin homology
 F:127-246/Domain: C-type lectin homology <LCH>

Query Match 4.1%; Score 10; DB 2; Length 248;
 Best Local Similarity 100.0%; Pred. No. 0.13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
 |||||
 DB 40 GLPGRDGRDG 49

RESULT 15
 A48853
 pulmonary surfactant-associated protein SP-A - mouse
 C:Species: Mus musculus (house mouse)
 C>Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 20-Aug-1999
 C:Accession: A48853
 R:Korfhagen, T.R.; Bruno, M.D.; Glasser, S.W.; Ciruolo, P.J.; Whitsett, J.A.; Lattie
 Am. J. Physiol. 263, L546-L554, 1992
 A>Title: Murine pulmonary surfactant SP-A gene: cloning, sequence, and transcription
 A:Reference number: A48853; MUID:93072386; PMID:1443158
 A:Accession: DBA/21
 A:Contents: DBA/21
 A:Accession: A48853
 A>Status: preliminary
 A:Molecule type: nucleic acid
 A:Residues: 1-248 <KOR>
 A:Cross-references: GB:S48768; NID:G260452; PIDN:AMB24274.1; PID:G260453
 A>Note: sequence extracted from NCBI backbone (NCBIN:118740, NCBI:P:118741)
 C:Superfamily: mannose-binding lectin; C-type lectin homology
 F:127-246/Domain: C-type lectin homology <LCH>

Query Match 4.1%; Score 10; DB 2; Length 248;
 Best Local Similarity 100.0%; Pred. No. 0.13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
 |||||
 DB 40 GLPGRDGRDG 49

Search completed: June 20, 2003, 11:43:37
 Job time : 22 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:26:54 ; Search time 17 Seconds
(without alignments)
592.868 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 243
Sequence: 1 MRPLVLLLLGLAAGSPPLD.....DSTFGSLVYSDMHSPVFA 243

Scoring table: OLIGO
Gapop 60.0 , Gapept 60.0

Searched: 112892 seqs, 41476328 residues

Word size: 0

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database: SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	243	100.0	243 1	Q05XJ0 Homo sapien
2	11	4.5	289 1	Q07XJ2 Homo sapien
3	11	4.9	369 1	P35246 Bos taurus
4	11	4.5	374 1	P50404 Mus musculus
5	11	4.5	374 1	P35248 Rattus norv
6	11	4.5	375 1	P35247 Homo sapien
7	11	4.5	1355 1	CA21_HUMAN
8	11	4.5	1670 1	CA34_HUMAN
9	11	4.5	2944 1	CA17_HUMAN
10	10	4.1	210 1	CAC2_HARECO
11	10	4.1	247 1	PSPA_CAVPO
12	10	4.1	247 1	PSPA_RABIT
13	10	4.1	248 1	PSPA_CANPA
14	10	4.1	248 1	PSPA_HUMAN
15	10	4.1	248 1	PSPA_MOUSE
16	10	4.1	248 1	PSPA_RAT
17	10	4.1	249 1	PSPA_PIG
18	10	4.1	526 1	CA21_RABIT
19	10	4.1	547 1	CA21_EPHMU
20	10	4.1	1049 1	CA13_BOVIN
21	10	4.1	1464 1	CA13_MOUSE
22	10	4.1	1466 1	CA13_HUMAN
23	9	3.7	265 1	CTRC_NEIMA
24	9	3.7	636 1	CA13_RAT
25	9	3.7	695 1	APP2_MOUSE
26	9	3.7	765 1	APP2_RAT
27	9	3.7	1364 1	CA21_BOVIN
28	9	3.7	1366 1	CA21_CANPA
29	9	3.7	1402 1	IF4G_RABIT
30	9	3.7	1669 1	CA14_MOUSE
31	8	3.3	28 1	CIQC_RAT
32	8	3.3	170 1	FA39_HUMAN
33	8	3.3	193 1	CERB_HUMAN

34	8	3.3	193 1	CERB_MOUSE	Q9171 mus musculus
35	8	3.3	201 1	CERL_HUMAN	Q9171 mus musculus
36	8	3.3	224 1	CERL_RAT	Q9171 mus musculus
37	8	3.3	244 1	APM1_HUMAN	Q15848 homo sapien
38	8	3.3	247 1	APM1_MOUSE	Q60994 mus musculus
39	8	3.3	301 1	CC02_CAEBL	P17656 caenorhabdit
40	8	3.3	306 1	CC40_CAEBL	P14804 caenorhabdit
41	8	3.3	316 1	CC12_CAEBL	P20630 caenorhabdit
42	8	3.3	316 1	CC13_CAEBL	P20631 caenorhabdit
43	8	3.3	329 1	Q07X_HUMAN	Q9171 mus musculus
44	8	3.3	356 1	VP36_CANPA	P49256 canis fam1
45	8	3.3	358 1	VP36_MOUSE	Q9171 mus musculus

ALIGNMENTS

RESULT 1
ID COTS_HUMAN STANDARD; PRT; 243 AA.
AC Q05XJ0; Q07XJ2; 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DE Complement-clg tumor necrosis factor-related protein 5 precursor.
GN C1QTNF5 OR CTRP5.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Sheppard P.O., Humes J.M.;
RT "Homo sapiens complement-clg tumor necrosis factor-related protein.";
RN Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
RP SEQUENCE OF 25-243 FROM N.A.
RC TISSUE=Uterus;
RA Ottenwaelder B., Obermaier B., Mewes H.-W., Gassenhuber J.,
RA Wiemann S.;
RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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CC -----
DR EMBL; AF329841; AKK17965.1; -;
DR EMBL; AL110261; CAB53702.1; -;
DR Genew; HGNC:14344; C1QTNF5.
DR InterPro; IPR001073; C1Q
DR InterPro; IPR000087; Collagen.
DR Pfam; PF00386; C1q; 1.
DR Pfam; PF01391; Collagen; 1.
DR PRINTS; PRO0007; COMPLEMENTC1Q.
DR SMART; SM00110; C1Q; 1.
DR PROSITE; PS01113; C1Q; FALSE_NEG.
KW Collagen; signal.
FT SIGNAL; 1 15
FT CHAIN; 16 243
FT FT
FT DOMAIN; 30 95
FT DOMAIN; 97 243
FT C1Q.
SQ SEQUENCE 243 AA; 25298 MW; 7CDCA65CDAB7EB784 CRC64;
Query Match 100.0%; Score 243; DB 1; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.9e-193;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNNKI PSI.CPGHGL.PCTPGHSGQGL.PGRDGRDGRDAPG 60
 Db 1 MRPLVLLILGLAAGSPPLDNNKI PSI.CPGHGL.PCTPGHSGQGL.PGRDGRDGRDAPG 60
 QY 61 APEKGGKGRPG.PGPRGDPGRGEGAPGAPGAPGAPGAPGAPGAPGAPGAPGAPGAPG 120
 Db 61 APEKGGKGRPG.PGPRGDPGRGEGAPGAPGAPGAPGAPGAPGAPGAPGAPGAPGAPG 120
 QY 121 APLEPDRVLNBOGHDAVTKFTCCVPGVYFAVHATVYRASLOEDLVNKGESIASFFQ 180
 Db 121 APLEPDRVLNBOGHDAVTKFTCCVPGVYFAVHATVYRASLOEDLVNKGESIASFFQ 180
 QY 181 FPGGMPAPSLSGAMVRLPEPDQWVQVGVYIGIYASIKTDSIFSGFLVYSDMHSSP 240
 Db 181 FPGGMPAPSLSGAMVRLPEPDQWVQVGVYIGIYASIKTDSIFSGFLVYSDMHSSP 240
 QY 241 VFA 243
 Db 241 VFA 243

RESULT 2
 COT7_HUMAN
 ID COT7_HUMAN STANDARD; PRT; 289 AA.
 AC 09BKX2;
 DT 15-JUN-2002 (Rel. 41, Created)
 DT 15-JUN-2002 (Rel. 41, Last sequence update)
 DE Complement-c1g tumor necrosis factor-related protein 7 precursor.
 GN C1QTFP7 OR CTRP7.
 OS Homo sapiens (human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NCBI_TaxID=9606;
 [1]
 RA Piddington C.S., Sheppard P.O., Bishop P., Lasser G.W.;
 RT "Homo sapiens complement-c1g tumor necrosis factor-related protein.";
 RN Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RA Strausberg R.;
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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 CC
 CC EMBL: AF29839; AAK17963.1; -
 CC EMBL: BC022187; AAH22187.1; -
 CC GeneW: HGNC:14342; C1QTNF7.
 CC InterPro: IPR001073; C1Q.
 CC InterPro: IPR000087; Collagen.
 CC Pfam: PF00386; C1q; 1.
 CC Pfam: PF01391; Collagen; 2.
 CC PRINTS: PRO0007; COMPLEMENTC1Q.
 CC SMART: SM00110; C1Q; 1.
 CC DR PROSITE: PS01113; C1Q; 1.
 CC DR Collagen; Signal.
 CC KW CHAIN 1 16
 CC FT SIGNAL 1 16
 CC FT CHAIN 17 289
 CC FT DOMAIN 38 139
 CC FT DOMAIN 141 276
 CC FT SEQUENCE 289 AA; 30683 MW; A61609P86D26946 CRC64;
 CC POTENTIAL.
 CC COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-
 CC RELATED PROTEIN 7.
 CC COLLAGEN-LIKE.

Query Match 4.5%; Score 11; DB 1; Length 289;
 Best Local Similarity 100.0%; Pred. No. 0.06;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 45 GLPGRDGR 55
 Db 59 GLPGRDGR 69

RESULT 3
 PSPD_BOVIN
 ID PSPD_BOVIN STANDARD; PRT; 369 AA.
 AC P3246;
 DT 01-FEB-1994 (Rel. 28, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
 GN SFTPD OR SFTPD.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 NCBI_TaxID=9913;
 [1]
 RA
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 208-247.
 RC TISSUE=Lung;
 RX MEDLINE=93170856; PubMed=8436402;
 RA Kim B.L., Lu J., Reid K.B.M.;
 RT "Structural similarity between bovine conglutinin and bovine lung
 RT surfactant protein D and demonstration of liver as a site of
 RT synthesis of conglutinin.";
 RL Immunology 78:159-165(1993).
 CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEIN (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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 CC
 CC EMBL: X75911; CAA53510.1; -
 CC PIR: S33603; S33603.
 CC HSSP: P3247; 1B08.
 CC InterPro: IPR000087; Collagen.
 CC InterPro: IPR001304; Lectin_C.
 CC Pfam: PF00059; lectin_c; 1.
 CC Pfam: PF01391; Collagen; 2.
 CC SMART: SM00034; CTRP7.
 CC DR PROSITE: PS00615; C-TYPE LECTIN 1; 1.
 CC DR PROSITE: PS50041; C-TYPE LECTIN 2; 1.
 CC KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 CC KW Signal; Lactin; Collagen; Repeat; Coiled coil.
 CC FT SIGNAL 1 20
 CC FT CHAIN 21 369
 CC FT DOMAIN 46 216
 CC FT DOMAIN 217 248
 CC FT DOMAIN 273 369
 CC FT DISULFID 275 367
 CC COLLAGEN-LIKE.
 CC COILED COIL (POTENTIAL).
 CC C-TYPE LECTIN (SHORT FORM).
 CC BY SIMILARITY.

FT DISULFID 345 359 BY SIMILARITY.
 FT CARBOHYD 90 90 N-LINKED (GLCNAC...) (POTENTIAL).
 FT MOD_RES 78 78 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 87 87 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 96 96 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 99 99 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 165 165 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 171 171 HYDROXYLATION (BY SIMILARITY).
 SQ SEQUENCE 369 AA; 37361 MW; 07D8B824E0AB2E3 CRC64;
 Query Match 4.5%; Score 11; DB 1; Length 369;
 Best Local Similarity 100.0%; Pred. No. 0.073;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 45 GLPGRDGRDGR 55
 Db 46 GLPGRDGRDGR 56
 RESULT 4
 PSPD MOUSE STANDARD; PRT; 374 AA.
 AC P50404;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
 GN SFTPD OR SFTPD.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxId=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;
 RX MEDLINE=96094460; PubMed=7499852;
 RA Motwani M., White R.A., Guo N., Dowler L.L., Tauber A.I., Sastry K.N.;
 RT "Mouse surfactant protein-D. cDNA cloning, characterization, and gene
 RT localization to chromosome 14.";
 RT J. Immunol. 155:5671-5677(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/Sv;
 RX MEDLINE=99244602; PubMed=10226065;
 RA Lawson P.R., Perkins V.C., Holmskov U., Reid K.B.;
 RT "Genomic organization of the mouse gene for lung surfactant protein
 RT D.";
 RT Am. J. Respir. Cell Mol. Biol. 20:953-963(1999).
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Fisher J.H., Shetfelyevich V.V.;
 RT "Surfactant protein-D regulates surfactant phospholipid homeostasis in
 RT vivo.";
 RT Submitted (OCT-1999) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A.
 RA Strausberg R.;
 RT Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
 CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOIETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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 DR EMBL; L40156; AAA92021.1; -
 DR EMBL; AF047742; AAD31380.1; -
 DR EMBL; AF047741; AAD31380.1; JOINED.
 DR EMBL; AF192134; AAF15277.1; -
 DR EMBL; BC003705; AAH03705.1; -
 DR HSSP; P35247; 1B08
 DR MGD; MG1:109515; Sftpd.
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR001304; Lectin C.
 DR Pfam; PF00059; Lectin C; 1.
 DR Pfam; PF01391; Collagen; 3.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
 DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
 KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 KW Signal; Lectin; Collagen; Repeat; Coiled coil.
 FT SIGNAL 1 19
 FT CHAIN 20 374
 FT DOMAIN 45 221
 FT DOMAIN 222 253
 FT DOMAIN 278 374
 FT DISULFID 280 372
 FT DISULFID 350 364
 FT CARBOHYD 89 89
 SQ SEQUENCE 374 AA; 37688 MW; FE034261265F43B4 CRC64;
 Query Match 4.5%; Score 11; DB 1; Length 374;
 Best Local Similarity 100.0%; Pred. No. 0.074;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 45 GLPGRDGRDGR 55
 Db 45 GLPGRDGRDGR 55
 RESULT 5
 PSPD RAT STANDARD; PRT; 374 AA.
 ID _PSPD_RAT
 AC P35246;
 DT 01-FEB-1994 (Rel. 28, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D)
 DE (CP4).
 GN SFTPD OR SFTPD.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxId=10116;
 RN [1]
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 20-33.
 RC TISSUE=Lung;
 RX MEDLINE=92112913; PubMed=1370483;
 RA Shimizu H., Fisher J.H., Papst P., Benson B., Lau K., Mason R.J.,
 RA Voelker D.R.;
 RT "Primary structure of rat pulmonary surfactant protein D. cDNA and
 RT deduced amino acid sequence.";
 RT J. Biol. Chem. 267:1853-1857(1992).
 RN [2]
 RP SEQUENCE OF 73-95 AND 153-180.
 RC TISSUE=Lung;
 RX MEDLINE=90001186; PubMed=2675969;
 RA Persson A., Chang D., Rust K., Moxley M., Longmore W., Crouch E.;
 RT "Purification and biochemical characterization of CP4 (SP-D), a
 RT collagenous surfactant-associated protein.";
 RT Biochemistry 28:6361-6367(1989).

CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOIETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
 CC -----
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 CC -----
 DR EMBL; M81231; AAA42170.1; -
 DR PIR; A42046; A42046.
 DR HSSP; P35247; 1B08.
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF01391; Collagen; 3.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 KW Signal; Lectin; collagen; Repeat; Coiled coil.
 FT SIGNAL 1 19
 FT CHAIN 20 374
 FT FT PULMONARY SURFACTANT-ASSOCIATED PROTEIN
 FT D.
 FT DOMAIN 45 221 COLLAGEN-LIKE.
 FT DOMAIN 222 253 COILED COIL (POTENTIAL).
 FT DOMAIN 278 374 C-TYPE LECTIN (SHORT FORM).
 FT DISULFID 280 372 BY SIMILARITY.
 FT DISULFID 350 364 BY SIMILARITY.
 FT CARBOHYD 89 89 N-LINKED (GLCNAC. . .).
 FT MOD RES 77 77 HYDROXYLATION.
 FT MOD RES 86 86 HYDROXYLATION.
 FT MOD RES 95 95 HYDROXYLATION.
 FT MOD RES 98 98 HYDROXYLATION.
 FT MOD RES 98 98 HYDROXYLATION.
 FT MOD RES 170 170 HYDROXYLATION.
 FT MOD RES 176 176 HYDROXYLATION.
 FT CONFLICT 89 89 N -> E (IN REF. 2).
 FT CONFLICT 164 164 K -> C (IN REF. 2).
 SQ SEQUENCE 374 AA; 37561 MW; DB2BBS39DBA43C CRG64;
 Query Match 4.5%; Score 11; DB 1; Length 374;
 Best Local Similarity 100.0%; Pred. No. 0.074;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 45 GLPGDGRDGR 55
 Db 45 GLPGDGRDGR 55
 RESULT 6
 PSPD HUMAN
 ID PSPD HUMAN STANDARD; PRT; 375 AA.
 AC P35247;
 DT 01-FEB-1994 (Rel. 28; Created)
 DT 01-FEB-1994 (Rel. 28; Last sequence update)
 DE 16-OCT-2001 (Rel. 40; Last annotation update)
 DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
 OS SFTPD OR SFTPA OR PSPD.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RX MEDLINE=93155122; PubMed=8428971;
 RA Crouch E., Rust K., Veille R., Donis-Keller H., Grosso L.;
 RT "Genomic organization of human surfactant protein D (SP-D). SP-D is
 RT encoded on chromosome 10q22.2-23.1.";
 RL J. Biol. Chem. 268:2976-2983 (1993).
 RN [2]
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 214-243.
 RC TISSUE=Lung, and Amniotic fluid;
 RX MEDLINE=92322003; PubMed=1339284;
 RA Lu J., Willis A.C., Reid K.B.M.;
 RT "Purification, characterization and cDNA cloning of human lung
 RT surfactant protein D.";
 RL Biochem. J. 284:795-802 (1992).
 RN [3]
 RP SEQUENCE OF 60-375 FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=Lung;
 RX MEDLINE=91378578; PubMed=1898081;
 RA Rust K., Grosso L., Zhang V., Chang D., Persson A., Longmore W.,
 RA Cai G.-Z., Crouch B.;
 RT "Human surfactant protein D: SP-D contains a C-type lectin
 RT carbohydrate recognition domain.";
 RL Arch. Biochem. Biophys. 290:116-126 (1991).
 RN [4]
 RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
 RX MEDLINE=99197291; PubMed=10368295;
 RA Hakanson K., Lim N.K., Hoppe H.-J., Reid K.B.M.;
 RT "Crystal structure of the trimeric alpha-helical coiled-coil and the
 RT three lectin domains of human lung surfactant protein D.";
 RL Structure 7:255-264 (1999).
 CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOIETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- PTM: The N-terminus is blocked.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
 CC -----
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 CC -----
 DR EMBL; L05485; AAB59450.1; JOINED.
 DR EMBL; L05483; AAB59450.1; JOINED.
 DR EMBL; L05484; AAB59450.1; JOINED.
 DR EMBL; X65018; CAA46152.1; -
 DR PIR; A45225; A45225.
 DR PIR; S18382; S18382.
 DR PDB; 1B08; 29-NOV-99.
 DR GeneW; HGNC:10803; SFTPD.
 DR MIM; 178635; -
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF01391; Collagen; 4.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 KW Signal; Lectin; Collagen; Repeat; Coiled coil; 3D-structure.

FT SIGNAL 1 20 BY SIMILARITY.
 FT CHAIN 21 375 PULMONARY SURFACTANT-ASSOCIATED PROTEIN
 FT DOMAIN 46 222 D.
 FT DOMAIN 223 252 COLLAGEN-LIKE.
 FT DISULFID 279 375 COILED COIL (POTENTIAL).
 FT DISULFID 351 365 C-TYPE LECTIN (SHORT FORM).
 FT CARBOHYD 90 90 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT MOD_RES 78 78 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 87 87 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 96 96 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 99 99 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 171 171 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 177 177 HYDROXYLATION (BY SIMILARITY).
 FT CONFLICT 31 31 M -> T (IN REF. 2).
 FT CONFLICT 59 59 P -> F (IN REF. 3).
 FT CONFLICT 122 122 A -> P (IN REF. 2).
 FT CONFLICT 180 180 T -> A (IN REF. 2).
 FT CONFLICT 206 206 D -> P (IN REF. 3).
 FT CONFLICT 374 374 E -> EH (IN REF. 3).
 SQ SEQUENCE 375 AA; 37702 MW; 2986B2699FC01A6A CRC64;

Query Match 4.5%; Score 11; DB 1; Length 375;
 Best Local Similarity 100.0%; Pred. No. 0.074;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDR 55
 DB 46 GLPGRDGRDR 56

RESULT 7
 ID CA21_RANCA STANDARD; PRT; 1355 AA.
 AC 042350;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Collagen alpha 2(I) chain precursor.
 GN COL1A2.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Tail;
 RA MEDLINE=97417499; PubMed=972872;
 RA Ashina K., Oofusa K., Obata M., Yoshizato K.;
 RT "Cloning and characterization of the full length cDNA encoding alpha2
 RT type I collagen of bullfrog Rana catesbeiana.";
 RL Gene 194:283-289(1997).
 CC -1- FUNCTION: TYPE I COLLAGEN IS A MEMBER OF GROUP I COLLAGEN
 CC (FIBRILLAR FORMING COLLAGEN).
 CC -1- SUBUNIT: TRIMERS OF ONE ALPHA 2(I) AND TWO ALPHA 1(I) CHAINS.
 CC -1- TISSUE SPECIFICITY: FORMS THE FIBRILS OF TENDON, LIGAMENTS AND
 CC BONES. IN BONES THE FIBRILS ARE MINERALIZED WITH CALCIUM
 CC HYDROXYAPATITE.
 CC -1- PM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
 CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
 CC -----
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 CC -----
 CC EMBL, D88764; BAA22380.1;
 DR InterPro; IPR00087; Collagen.
 DR InterPro; IPR00085; Fib_collagen_C.

DR Pfam; PF01391; Collagen; 18.
 DR Pfam; PF01410; COLFI; 1.
 DR Prodom; PD000007; Collagen; 3.
 DR Prodom; PD002078; Fib_collagen_C; 1.
 DR SMART; SM00038; COLFI.1.
 KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 KW Glycoprotein; Collagen; Signal.
 FT SIGNAL 1 22 POTENTIAL.
 FT PROPEP 23 82 AMINO-TERMINAL PROPEPTIDE (POTENTIAL).
 FT CHAIN 83 1093 COLLAGEN ALPHA 2(I) CHAIN.
 FT PROPEP 1094 1355 CARBOXYL-TERMINAL PROPEPTIDE
 FT (BY SIMILARITY).
 FT CARBOHYD 1206 1206 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1256 1256 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 1355 AA; 127643 MW; C8793AD5D6F41D2A CRC64;

Query Match 4.5%; Score 11; DB 1; Length 1355;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 83 RGEAGPAGPTG 93
 DB 705 RGEAGPAGPTG 715

RESULT 8
 ID CA34_HUMAN STANDARD; PRT; 1670 AA.
 AC 001955; Q9BQ72;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 15-JUL-1999 (Rel. 38, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Collagen alpha 3 (IV) chain precursor (Goodpasture antigen).
 GN COL4A3.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Kidney;
 RX MEDLINE=94364994; PubMed=8083201;
 RA Mariyama M., Leinonen A., Mochizuki T., Trygvasen K., Reiders S.T.;
 RT "Complete primary structure of the human alpha 3(IV) collagen chain.
 RT Coexpression of the alpha 3(IV) and alpha 4(IV) collagen chains in
 RT human tissues.";
 RL J. Biol. Chem. 269:23013-23017(1994).
 RN [2]
 RP REVISIONS.
 RA Leinonen A.;
 RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A., VARIANTS AS E-297; R-407; R-1167; E-1207;
 RP O-1215; S-1277; T-1330; E-1334; E-1347 AND C-1661, AND VARIANTS R-43;
 RP E-162; Y-326; H-408; R-451; L-574; E-1269 AND P-1474.
 RX MEDLINE=21064696; PubMed=11134255;
 RA Heider L., Attwood C., Forestier L., Cohen-Solal L., Mollet G.,
 RA Gutierrez B., Stavrou C., Gubler M.C., Antignac C.;
 RT "Structure of the human type IV collagen gene COL4A3 and mutations in
 RT autosomal Alport syndrome.";
 RL J. Am. Soc. Nephrol. 12:97-106(2001).
 RN [4]
 RP SEQUENCE OF 1386-1670 FROM N.A., AND PARTIAL SEQUENCE.
 RX MEDLINE=93015826; PubMed=1400291;
 RA Quinones S., Bernal D., Garcia-Sogo M., Elena S.F., Saus J.;
 RT "Exon/Intron structure of the human alpha 3(IV) gene encompassing the
 RT Goodpasture antigen (alpha 3(IV)NC1). Identification of a potentially
 RT antigenic region at the triple helix/NC1 domain junction.";
 RL J. Biol. Chem. 267:19780-19784(1992).
 RN [5]
 RP SEQUENCE OF 1453-1670 FROM N.A.
 RX MEDLINE=91353570; PubMed=1882840;
 RA Morrison K.E., Mariyama M., Yang-Feng T.L., Reiders S.T.;

RT "Sequence and localization of a partial cDNA encoding the human alpha
RT 3 chain of type IV collagen.";
RL Am. J. Hum. Genet. 49:545-554(1991).
RN [6]
RP SEQUENCE OF 1331-1670 FROM N.A.
RC TISSUE=Kidney;
RX MEDLINE=92147878; PubMed=1737849;
RA Turner N., Mason P.J., Brown R., Fox M., Povey S., Rees A.,
RA Pusey C.D.;
RT "Molecular cloning of the human Goodpasture antigen demonstrates it
RT to be the alpha 3 chain of type IV collagen.";
RL J. Clin. Invest. 89:592-601(1992).
RN [7]
RP SEQUENCE OF 1644-1670 FROM N.A.
RC TISSUE=Kidney;
RA Ding J.;
RL Submitted (JAN-1993) to the EMBL/GenBank/DBJ databases.
RN [8]
RP SEQUENCE OF 1439-1670, AND ALTERNATIVE SPLICING.
RC TISSUE=Kidney;
RX MEDLINE=94124597; PubMed=8294492;
RA Feng L., Xia Y., Wilson C.B.;
RT "Alternative splicing of the NC1 domain of the human alpha 3(IV)
RT collagen gene. Differential expression of mRNA transcripts that
RT predict three protein variants with distinct carboxyl regions.";
RL J. Biol. Chem. 269:2342-2348(1994).
RN [9]
RP SEQUENCE OF 1-29, FROM N.A.
RX MEDLINE=98196854; PubMed=9537506;
RA Momota R., Sugimoto M., Ohashi T., Kigasawa K., Yoshioka H.,
RA Ninomiya Y.;
RT "Two genes, COL4A3 and COL4A4 coding for the human alpha3(IV) and
RT alpha4(IV) collagen chains are arranged head-to-head on chromosome
RT 2q36.";
RL FEBS Lett. 424:11-16(1998).
RN [10]
RP ALTERNATIVE SPLICING.
RX MEDLINE=93280184; PubMed=8505332;
RA Bernal D., Quiñones S., Saus J.;
RT "The human mRNA encoding the Goodpasture antigen is alternatively
RT spliced.";
RL J. Biol. Chem. 268:12090-12094(1993).
RN [11]
RP VARIANT PRO-1474.
RX MEDLINE=95078827; PubMed=7987301;
RA Lemmink H.H., Mochizuki T., van den Heuvel L.P.W.J., Schroeder C.H.,
RA Bartelds A., Monnens L.A.H., van Oost B.A., Brunner H.G.,
RT "Mutations in the type IV collagen alpha 3 (COL4A3) gene in autosomal
RT recessive Alport syndrome.";
RL Hum. Mol. Genet. 3:1269-1273(1994).
CC -1- FUNCTION: TYPE IV COLLAGEN IS THE MAJOR STRUCTURAL COMPONENT OF
CC GLOMERULAR BASEMENT MEMBRANES (GBM), FORMING A 'CHICKEN-WIRE'
CC MESHWORK TOGETHER WITH LAMININS, PROTEOGLYCAN AND ENACTIN/
CC NIDDOGEN.
CC -1- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV) -
CC ALPHA 6(IV). EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE
CC WITH 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
CC -1- SUBCELLULAR LOCATION: CELL SURFACE (POTENTIAL).
CC -1- ALTERNATIVE PRODUCTS: AT LEAST 3 ISOFORMS, 1 (SHOWN HERE), 2/V AND
CC 3/L5; ARE PRODUCED BY ALTERNATIVE SPLICING. THEY DIFFER IN THEIR
CC C-TERMINAL NC1 DOMAINS.
CC -1- TISSUE SPECIFICITY: ALPHA 3 AND ALPHA 4 TYPE IV COLLAGENS ARE
CC COLOCALIZED AND PRESENT ONLY IN BASEMENT MEMBRANES OF KIDNEY, EYE,
CC COCHLEA, LUNG AND BRAIN.
CC -1- DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS
CC DOMAIN (NC1) AT THEIR C-TERMINUS. FREQUENT INTERRUPTIONS OF THE
CC G-X-Y REPEATS IN THE LONG CENTRAL TRIPLE-HELICAL DOMAIN (WHICH MAY
CC CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL
CC TRIPLE-HELICAL 7S DOMAIN.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPLEPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- PTM: THE ALTERNATIVE SPLICED FORM V CONTAINS AN ADDITIONAL

CC N-LINKED GLYCOSYLATION SITE.
CC -1- PTM: TYPE IV COLLAGENS CONTAIN NUMEROUS CYSTEINE RESIDUES WHICH
CC ARE INVOLVED IN INTER- AND INTRAMOLECULAR DISULFIDE BONDING. 12 OF
CC THESE, LOCATED IN THE NC1 DOMAIN, ARE CONSERVED IN ALL KNOWN TYPE
CC IV COLLAGENS.
CC -1- PTM: Phosphorylated by the Goodpasture antigen-binding protein.
CC DISEASE: ANTIBODIES AGAINST THE NC1 DOMAIN OF ALPHA3(IV) MEDIAE
CC THE HUMAN AUTOIMMUNE DISEASE, GOODPASTURE SYNDROME, WHICH IS
CC CHARACTERIZED BY HEMATURIA AND PULMONARY HEMORRHAGE.
CC -1- DISEASE: DEFECTS IN COL4A3 ARE ASSOCIATED WITH THE TYPE I
CC AUTOSOMAL RECESSIVE FORM OF ALPORT SYNDROME, AN HEREDITARY
CC GLOMERULONEPHROPATHY CHARACTERIZED BY PROGRESSIVE RENAL FAILURE,
CC HEMATURIA AND DEAFNESS. THE RECESSIVE FORM OCCURS EQUALLY BETWEEN
CC MALES AND FEMALES.
CC -----
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CC -----
DR EMBL; X80031; CAA56335.1; -
DR EMBL; AJ288487; CAC36101.1; -
DR EMBL; AJ288488; CAC36101.1; JOINED.
DR EMBL; AJ288489; CAC36101.1; JOINED.
DR EMBL; AJ288490; CAC36101.1; JOINED.
DR EMBL; AJ288491; CAC36101.1; JOINED.
DR EMBL; AJ288492; CAC36101.1; JOINED.
DR EMBL; AJ288493; CAC36101.1; JOINED.
DR EMBL; AJ288494; CAC36101.1; JOINED.
DR EMBL; AJ288495; CAC36101.1; JOINED.
DR EMBL; AJ288496; CAC36101.1; JOINED.
DR EMBL; AJ288497; CAC36101.1; JOINED.
DR EMBL; AJ288498; CAC36101.1; JOINED.
DR EMBL; AJ288499; CAC36101.1; JOINED.
DR EMBL; AJ288500; CAC36101.1; JOINED.
DR EMBL; AJ288501; CAC36101.1; JOINED.
DR EMBL; AJ288502; CAC36101.1; JOINED.
DR EMBL; AJ288503; CAC36101.1; JOINED.
DR EMBL; AJ288504; CAC36101.1; JOINED.
DR EMBL; AJ288505; CAC36101.1; JOINED.
DR EMBL; AJ288506; CAC36101.1; JOINED.
DR EMBL; AJ288507; CAC36101.1; JOINED.
DR EMBL; AJ288508; CAC36101.1; JOINED.
DR EMBL; AJ288509; CAC36101.1; JOINED.
DR EMBL; AJ288510; CAC36101.1; JOINED.
DR EMBL; AJ288511; CAC36101.1; JOINED.
DR EMBL; AJ288512; CAC36101.1; JOINED.
DR EMBL; AJ288513; CAC36101.1; JOINED.
DR EMBL; AJ288514; CAC36101.1; JOINED.
DR EMBL; AJ288515; CAC36101.1; JOINED.
DR EMBL; AJ288516; CAC36101.1; JOINED.
DR EMBL; AJ288517; CAC36101.1; JOINED.
DR EMBL; AJ288518; CAC36101.1; JOINED.
DR EMBL; AJ288519; CAC36101.1; JOINED.
DR EMBL; AJ288520; CAC36101.1; JOINED.
DR EMBL; AJ288521; CAC36101.1; JOINED.
DR EMBL; AJ288522; CAC36101.1; JOINED.
DR EMBL; AJ288523; CAC36101.1; JOINED.
DR EMBL; AJ288524; CAC36101.1; JOINED.
DR EMBL; AJ288525; CAC36101.1; JOINED.
DR EMBL; AJ288526; CAC36101.1; JOINED.
DR EMBL; AJ288527; CAC36101.1; JOINED.
DR EMBL; AJ288528; CAC36101.1; JOINED.
DR EMBL; AJ288529; CAC36101.1; JOINED.
DR EMBL; AJ288530; CAC36101.1; JOINED.
DR EMBL; AJ288531; CAC36101.1; JOINED.
DR EMBL; AJ288532; CAC36101.1; JOINED.
DR EMBL; AJ288533; CAC36101.1; JOINED.
DR EMBL; AJ288534; CAC36101.1; JOINED.
DR EMBL; AJ288535; CAC36101.1; JOINED.

DR EMBL: AJ288536; CAC36101.1; JOINED.
 DR EMBL: AJ288537; CAC36101.1; JOINED.
 DR EMBL: AJ288538; CAC36101.1; JOINED.
 DR EMBL: M92993; AAA21610.1; -.
 DR EMBL: S55790; AAB19637.1; -.
 DR EMBL: M81379; AAA51556.1; -.
 DR EMBL: L08650; AAA52044.1; -.
 DR EMBL: U02519; AAA18942.1; -.

Query Match 4.5%; Score 11; DB 1; Length 1670;
 Best Local Similarity 100.0%; Pred. No. 0.24;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 71 PGLPGRGDPG 81
 Db 1300 PGLPGRGDPG 1310

RESULT 9
 CA17_HUMAN STANDARD; PRT: 2944 AA.
 ID 002386; Q14054; Q16507;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Collagen alpha 1(VII) chain precursor (long-chain collagen) (LC
 DE collagen).
 GN COL7A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=94327588; PubMed=8051117;
 RA Cristiano A.M., Greenspan D.S., Lee S., Uitto J.;
 RT "Cloning of human type VII collagen. Complete primary sequence of the
 RT alpha 1(VII) chain and identification of intragenic polymorphisms.";
 RL J. Biol. Chem. 269:20256-20262(1994).
 RN [2]
 RP SEQUENCE OF 128-1493 FROM N.A., AND PARTIAL SEQUENCE.
 RX MEDLINE=9338437; PubMed=1307247;
 RA Cristiano A.M., Rosenbaum L.M., Chung-Honet L.C., Parente M.G.,
 RA Woodley D.T., Fan T.C., Zhang R.Z., Chu M.-L., Burgeson R.E.,
 RA Uitto J.;
 RT "The large non-collagenous domain (NC-1) of type VII collagen is
 RT amino-terminal and chimeric. Homology to catilage matrix protein,
 RT the type III domains of fibronectin and the A domains of von
 RT Willebrand factor.";
 RL Hum. Mol. Genet. 1:475-481(1992).
 RN [3]
 RP SEQUENCE OF 815-1439 FROM N.A.
 RX MEDLINE=9334380; PubMed=1871109;
 RA Parente M.G., Chung L.C., Rymaenen J., Woodley D.T., Wynn K.W.,
 RA Bauer E.A., Mattei M.-G., Chu M.-L., Uitto J.;
 RT "Human type VII collagen: cDNA cloning and chromosomal mapping of the
 RT gene.";
 RL Proc. Natl. Acad. Sci. U.S.A. 88:6931-6935(1991).
 RN [4]
 RP SEQUENCE OF 369-1255 FROM N.A.
 RX MEDLINE=93107742; PubMed=1469284;
 RA Gammon W.R., Abernethy M.L., Fadilla K.M., Priyayanh P.S.,
 RA Cook M.E., Wright J., Briggman R.A., Hunt S.W. II;
 RT "Noncollagenous (NC1) domain of collagen VII resembles multidomain
 RT adhesion proteins involved in tissue-specific organization of
 RT extracellular matrix.";
 RL J. Invest. Dermatol. 99:691-696(1992).
 RN [5]
 RP SEQUENCE OF 340-675 FROM N.A.
 RX MEDLINE=92231902; PubMed=1567409;
 RA Tanaka T., Takahashi K., Furukawa F., Imamura S.;
 RT "Molecular cloning and characterization of type VII collagen cDNA.";

RL Biochem. Biophys. Res. Commun. 183:958-963(1992).
 RN [6]
 RP SEQUENCE OF 2395-2944 FROM N.A.
 RX MEDLINE=93271985; PubMed=8499916;
 RA Greenspan D.S.;
 RT "The carboxyl-terminal half of type VII collagen, including the non-
 RT collagenous NC-2 domain and intron/exon organization of the
 RT corresponding region of the COL7A1 gene.";
 RL Hum. Mol. Genet. 2:273-278(1993).
 RN [7]
 RP SEQUENCE OF 1-87 FROM N.A.
 RX TISSUE=Placenta;
 RX MEDLINE=94375010; PubMed=8088784;
 RA Cristiano A.M., Hoffman G.G., Chung-Honet L.C., Lee S., Cheng W.,
 RA Uitto J., Greenspan D.S.;
 RT "Structural organization of the human type VII collagen gene (COL7A1),
 RT composed of more exons than any previously characterized gene.";
 RL Genomics 21:169-179(1994).
 RN [8]
 RP REVIEW ON DEB VARIANTS.
 RX MEDLINE=98041696; PubMed=9375848;
 RA Jaervikallio A., Pulkkinen L., Uitto J.;
 RT "Molecular basis of dystrophic epidermolysis bullosa: mutations in
 RT the type VII collagen gene (COL7A1).";
 RL Hum. Mutat. 10:338-347(1997).
 RN [9]
 RP VARIANT RDEB LYS-2798.
 RX MEDLINE=93291877; PubMed=8513326;
 RA Cristiano A.M., Greenspan D.S., Hoffman G.G., Zhang X., Tamai Y.,
 RA Lin A.N., Dietz H.C., Hovnanian A., Uitto J.;
 RT "A missense mutation in type VII collagen in two affected siblings
 RT with recessive dystrophic epidermolysis bullosa.";
 RL Nat. Genet. 4:62-66(1993).
 RN [10]
 RP VARIANT DDEB SER-2040.
 RX MEDLINE=94224777; PubMed=8170945;
 RA Cristiano A.M., Rymaenen M., Uitto J.;
 RT "Dominant dystrophic epidermolysis bullosa: identification of a
 RT Gly->Ser substitution in the triple-helical domain of type VII
 RT collagen.";
 RL Proc. Natl. Acad. Sci. U.S.A. 91:3549-3553(1994).
 RN [11]
 RP VARIANT PEB-DDEB CYS-2623.
 RX MEDLINE=96081220; PubMed=8541842;
 RA Cristiano A.M., Lee J.Y.-Y., Chen W.J., Laforgia S., Uitto J.;
 RT "Pretibial epidermolysis bullosa: genetic linkage to COL7A1 and
 RT identification of a glycine-to-cysteine substitution in the triple-
 RT helical domain of type VII collagen.";
 RL Hum. Mol. Genet. 4:1579-1583(1995).
 RN [12]
 RP VARIANT DDEB ARG-2043.
 RX MEDLINE=95164985; PubMed=7861014;
 RA Cristiano A.M., Morricone A., Paradisi M., Angelo C., Mazzanti C.,
 RA Cavallieri R., Uitto J.;
 RT "A glycine-to-arginine substitution in the triple-helical domain of
 RT type VII collagen in a family with dominant dystrophic epidermolysis
 RT bullosa.";
 RL J. Invest. Dermatol. 104:438-440(1995).
 RN [13]
 RP VARIANTS RDEB AND DDEB.
 RX MEDLINE=96220218; PubMed=8644729;
 RA Cristiano A.M., McGrath J.A., Tan K.C., Uitto J.;
 RT "Glycine substitutions in the triple-helical region of type VII
 RT collagen result in a spectrum of dystrophic epidermolysis bullosa
 RT phenotypes and patterns of inheritance.";
 RL Am. J. Hum. Genet. 58:671-681(1996).
 RN [14]
 RP VARIANT RDEB ARG-2575.
 RX MEDLINE=96154068; PubMed=8592061;
 RA Shimizu H., McGrath J.A., Cristiano A.M., Nishikawa T., Uitto J.;
 RT "Molecular basis of recessive dystrophic epidermolysis bullosa:
 RT genotype/phenotype correlation in a case of moderate clinical
 RT severity.";

RL J. Invest. Dermatol. 106:119-124(1996).
 RN [15]
 RP VARIANT RDEB ARG-1782.
 RX MEDLINE=96183562; PubMed=8618018;
 RA Christiano A.M., McGrath J.A., Uitto J.;
 RT "Influence of the second COL7A1 mutation in determining the
 RT phenotypic severity of recessive dystrophic epidermolysis bullosa";
 RL J. Invest. Dermatol. 106:766-770(1996).
 RN [16]
 RP VARIANT RDEB ASP-2073.
 RX MEDLINE=96310789; PubMed=8757758;
 RA Dunnill M.G.S., McGrath J.A., Richards A.J., Christiano A.M.,
 RA Uitto J., Pope F.M., Eady R.A.J.;
 RT "Clinicopathological correlations of compound heterozygous COL7A1
 RT mutations in recessive dystrophic epidermolysis bullosa";
 RL J. Invest. Dermatol. 107:171-177(1996).
 RN [17]
 RP VARIANTS RDEB W-1982; G-2008; A-2025; E-2049; G-2063; W-2063 AND
 RP R-2575.
 RX MEDLINE=97465605; PubMed=9326325;
 RA Hovnanian A., Rochat A., Bodemer C., Petit E., Rivers C.A., Prost C.,
 RA Fretag S., Christiano A.M., Uitto J., Lathrop M., Barrandon Y.;
 RA de Prost Y.;
 RT "Characterization of 18 new mutations in COL7A1 in recessive
 RT dystrophic epidermolysis bullosa provides evidence for distinct
 RT molecular mechanisms underlying defective anchoring fibril
 RT formation";
 RL Am. J. Hum. Genet. 61:599-610(1997).
 RN [18]
 RP VARIANT RDEB ARG-1652.
 RX MEDLINE=98106792; PubMed=9444387;
 RA Csechalmi-Friedman P.B., Karpatis S., Horvath A., Christiano A.M.;
 RT "Identification of a glycine substitution and a splice site mutation
 RT in the type VII collagen gene in a proband with mild recessive
 RT dystrophic epidermolysis bullosa";
 RL Arch. Dermatol. Res. 289:640-645(1997).
 RN [19]
 RP VARIANTS DEB ARG-2009 AND ARG-2043.
 RX MEDLINE=97358588; PubMed=9215684;
 RA Winderig J.-O., Hammami-Hausali N., Nilsen O., Anton-Lamprecht I.,
 RA Naylor S.L., Kerbacher K., Zimmermann M., Krajci P.,
 RA Gede-Dahl T. Jr.; Bruckner-Tuderman L.;
 RT "Modulation of disease severity of dystrophic epidermolysis bullosa by
 RT a splice site mutation in combination with a missense mutation in the
 RT COL7A1 gene";
 RL Hum. Mol. Genet. 6:1125-1135(1997).
 RN [20]
 RP VARIANTS DEB ASP-1519; ASP-2006; GLU-2015 AND ARG-2034.
 RX MEDLINE=98334662; PubMed=9668111;
 RA Hammami-Hausali N., Schumann H., Raghunath M., Kilgus O., Luetthi U.,
 RA Luger T., Bruckner-Tuderman L.;
 RT "Some, but not all, glycine substitution mutations in COL7A1 result in
 RT intracellular accumulation of collagen VII, loss of anchoring
 RT fibrils, and skin blistering";
 RL J. Biol. Chem. 273:19228-19234(1998).
 RN [21]
 RP VARIANTS DEB CYS-2008; ARG-2207 AND SER-2775.
 RX MEDLINE=98410969; PubMed=9740253;
 RA Kon A., Pulkkinen L., Ishida-Yamamoto A., Hashimoto I., Uitto J.;
 RT "Novel COL7A1 mutations in dystrophic forms of epidermolysis
 RT bullosa";
 RL J. Invest. Dermatol. 111:534-537(1998).
 RN [22]
 RP VARIANT RDEB ARG-1347.
 RX MEDLINE=99019477; PubMed=9804332;
 RA Terracina M., Posteraro P., Schubert M., Sonego G., Atzori F.,
 RA Zambunio G., Bruckner-Tuderman L., Castiglia D.;
 RT "Compound heterozygosity for a recessive glycine substitution and a
 RT splice site mutation in the COL7A1 gene causes an unusually mild form
 RT of localized recessive dystrophic epidermolysis bullosa";
 RL J. Invest. Dermatol. 111:744-750(1998).
 RN [23]
 RP VARIANTS DEB TRP-2034; VAL-2040; ARG-2043; ARG-2064 AND ASP-2713.

RX MEDLINE=99072663; PubMed=9856843;
 Query Match 4.5%; Score 11; DB 1; Length 2944;
 Best Local Similarity 100.0%; Pred. No. 0.38;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 71 GAGPGEKDG 81
 DB 1328 GAGPGEKDG 1338
 RESULT 10
 CAC2_HAECC STANDARD; PRT; 210 AA.
 ID CAC2_HAECC
 AC P16252;
 DT 01-AUG-1990 (Rel. 15, Created)
 DT 01-AUG-1990 (Rel. 15, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Cuticle collagen 2C (Fragment).
 GN 2C.
 OS Haemonchus contortus (Barber pole worm).
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Strongylida;
 OC Trichostrongylidae; Haemonchidae; Haemonchinae; Haemonchus.
 OX NCBI_TaxID=6289;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90136718; PubMed=2615789;
 RA Shumansky L.M., Pratt D., Boissvenne R.J., Cox G.N.;
 RT "Cuticle collagen genes of Haemonchus contortus and Caenorhabditis
 RT elegans are highly conserved";
 RL Mol. Biochem. Parasitol. 37:73-86(1989).
 CC -1- FUNCTION: NEMATODE CUTICLES ARE COMPOSED LARGELY OF COLLAGEN-LIKE
 CC PROTEINS. THE CUTICLE FUNCTIONS BOTH AS AN EXOSKELETON AND AS A
 CC BARRIER TO PROTECT THE WORM FROM ITS ENVIRONMENT.
 CC -1- MISCELLANEOUS: THIS PROTEIN SHOWS A POTENTIAL TRIPLE-HELIX
 CC REGIONS, WHICH CONTAIN GLYCINE AS EVERY THIRD AMINO ACID.
 CC -1- MISCELLANEOUS: IN ALL NEMATODE CUTICLE COLLAGENS, THE POLYPEPTIDE
 CC CHAINS ARE COMPLEXED WITHIN THE CUTICLE BY DISULFIDE BONDS AND
 CC OTHER TYPES OF COVALENT CROSS-LINKS.
 CC -1- SIMILARITY: BELONGS TO THE CUTICULAR COLLAGEN FAMILY.
 CC -----
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 CC -----
 CC DR EMBL; J04670; AAA29172.1; -;
 CC DR InterPro; IPR000087; Collagen.
 CC Pfam; PF01391; Collagen; 3.
 CC Cuticle; Connective tissue; Repeat; Multigene family; Collagen.
 CC NON_TER 1
 CC SEQUENCE 210 AA; 19562 MW; E15FA9A2DF3D74B CRC64;
 Query Match 4.1%; Score 10; DB 1; Length 210;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 57 GAGPGEKDG 66
 DB 151 GAGPGEKDG 160
 RESULT 11
 PSPA_CAVPO STANDARD; PRT; 247 AA.
 ID PSPA_CAVPO
 AC P50403;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)

DE (PSP).
GN SFTPA1 OR SFTPA OR SFTPI.
OS Cava porcellus (Guinea pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Hystriognathi; Cavidae; Cavia.
OX NCBI_TaxID=10141;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=Hartley; TISSUE=Lung;
MEDLINE=98018900; PubMed=9357868;
RA Yuan H.T., Gowan S., Kelly F.J., Bingle C.D.;
RT "Cloning of guinea pig surfactant protein A defines a distinct
cellular distribution pattern within the lung."
RL Am. J. Physiol. 273:1900-1906(1997).
CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT
PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE
AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS
ESSENTIAL FOR NORMAL RESPIRATION.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
CC -----
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entities requires a license agreement (see <http://www.isb-sib.ch/announce/>
or send an email to license@isb-sib.ch).
CC -----
DR EMBL; U0869; AAB82952.1; -
DR HSSP; P22897; IE6G.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF01391; Collagen; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR Glycoprotein; Calcium; Surface Film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat.
FT SIGNAL 1 19
FT CHAIN 20 247
FT FT
FT CHAIN 20 247
FT FT
FT DOMAIN 27 99
FT DOMAIN 152 245
FT DISULFID 154 245
FT DISULFID 223 237
FT CARBOHYD 20 20
FT CARBOHYD 206 206
SQ SEQUENCE 247 AA; 26104 MW; D1BC86270EFC932 CRC64;
Query Match 4.1%; Score 10; DB 1; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 45 GLPGRDGRDG 54
Db 39 GLPGRDGRDG 48
RESULT 12
ID PSPA.RABIT STANDARD; PRT; 247 AA.
AC P12842;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
DE (PSP).
GN SFTPA1 OR SFTPA OR SFTPI.
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
OX NCBI_TaxID=9986;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=89139348; PubMed=2830270;
RA Boggarum V., Qing K., Mendelson C.R.;
RT "The major apoprotein of rabbit pulmonary surfactant. Fluoridation of
primary sequence and cyclic AMP and developmental regulation."
RL J. Biol. Chem. 263:2939-2947(1988).
RN [2]
RP SEQUENCE FROM N.A.
RX STRAIN=New Zealand white; TISSUE=Liver;
MEDLINE=92312742; PubMed=1616051;
RA Chen Q., Boggarum V., Mendelson C.R.;
RT "Rabbit lung surfactant protein A gene: identification of a lung-
specific DNase I hypersensitive site."
RL Am. J. Physiol. 262:L662-L671(1992).
CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT
PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE
AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS
ESSENTIAL FOR NORMAL RESPIRATION.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
CC -----
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entities requires a license agreement (see <http://www.isb-sib.ch/announce/>
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CC -----
DR EMBL; J03542; AAA31465.1; -
DR EMBL; L19387; AAA31468.1; -
DR PIR; A29931; LNRBS.
DR HSSP; P22897; IE6G.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_c; 1.
DR Pfam; PF01391; Collagen; 2.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR Glycoprotein; Calcium; Surface Film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat.
FT SIGNAL 1 15
FT CHAIN 16 247
FT FT
FT CHAIN 16 247
FT FT
FT DOMAIN 27 99
FT DOMAIN 152 245
FT DISULFID 154 245
FT DISULFID 223 237
FT CARBOHYD 206 206
FT VARIANT 12 12
FT CONFLICT 57 60
SQ SEQUENCE 247 AA; 26071 MW; 289634054CB8C84 CRC64;
Query Match 4.1%; Score 10; DB 1; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 45 GLPGRDGRDG 54

Db 39 GLPGRDRDGD 48

RESULT 13
PSPA CANFA STANDARD; PRT; 248 AA.

AC P06908:
DT 01-JAN-1998 (Rel. 06, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSPAP).
GN SFTPA1 OR SFTPA OR SFTPL.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
[1]
RP SEQUENCE FROM N.A., AND SIGNAL SEQUENCE CLEAVAGE SITE.
RX MEDLINE=86016705; PubMed=3863100;
RA Benson B., Hawgood S., Schilling J., Clements J., Damm D., Cordell B., White R.T.;
RT "Structure of canine pulmonary surfactant apoprotein: cDNA and complete amino acid sequence."
RL Proc. Natl. Acad. Sci. U.S.A. 82:6379-6383(1985).
RN [2]
RP C-TYPE LECTIN DOMAIN.
RX MEDLINE=87115834; PubMed=3808053;
RA Patchy L.;
RT "Is lung surfactant protein a lectin-collagen hybrid?";
RL Nature 325:490-490(1987).
CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS ESSENTIAL FOR NORMAL RESPIRATION.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC -1- SUBCELLULAR LOCATION: Extracellular.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10% PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS, CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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CC -----
DR EMBL; M11769; AAA30887.1; -
DR PIR; A25296; LNDGPS.
DR HSSP; P22897; 1EG3.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR SMART; SM00391; Collagen; 2.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
KM Glycoprotein; Calcium, Surface film; Gaseous exchange; Hydroxylation; Signal; Lectin; Collagen; Repeat.
FT SIGNAL 1 17
FT CHAIN 18 248
FT DOMAIN 26 100
FT FT 153 248
FT DISULFID 155 246
FT DISULFID 224 238
FT CARBOHYD 20 20
A.
COLLAGEN-LIKE.
C-TYPE LECTIN (SHORT FORM).
BY SIMILARITY.
N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 207 207 N-LINKED (GLCNAC. .) (PROBABLE).
SQ SEQUENCE 248 AA; 26268 MM; 340FE95D4E2502C0 CRC64;

Query Match 4.1%; Score 10; DB 1; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 45 GLPGRDRDGD 54
Db 40 GLPGRDRDGD 49

RESULT 14
PSPA HUMAN STANDARD; PRT; 248 AA.

AC P07714:
DT 01-APR-1988 (Rel. 07, Created)
DT 01-APR-1990 (Rel. 14, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSPAP) (Alveolar proteinosis protein) (35 kDa pulmonary surfactant-associated protein).
GN SFTPA1 OR SFTPA OR SFTPL OR PSPAP.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86250832; PubMed=3755136;
RA Flores J., Steinbrink R., Jacobs K., Phelps D., Kriz R., Recny M., Sultman L., Jones S., Taesch H.W., Frank H.A., Fritsch E.F.;
RT "Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfactant-associated protein."
RL J. Biol. Chem. 261:9029-9033(1986).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=86014366; PubMed=2995821;
RA White R.T., Damm D., Miller J., Spratt K., Schilling J., Hawgood S., Benson B., Cordell B.;
RT "Isolation and characterization of the human pulmonary surfactant apoprotein gene."
RL Nature 317:361-363(1985).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=92198680; PubMed=1372511;
RA Katyal S.L., Singh G., Locker J.L.;
RT "Characterization of a second human pulmonary surfactant-associated protein SP-A gene."
RL Am. J. Respir. Cell Mol. Biol. 6:446-452(1992).
CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS ESSENTIAL FOR NORMAL RESPIRATION.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC -1- SUBCELLULAR LOCATION: Extracellular.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10% PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS, CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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CC -----
DR EMBL; M13686; AAA60211.1; -
DR EMBL; K03475; AAA36520.1; -

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DR EMBL; M30838; AAA36510.1; -
DR EMBL; M68519; AAA60319.1; -
DR PIR; A24622; LNHUP6.
DR PIR; A25720; LNHUP6.
DR PIR; B25720; LNHUP1.
DR HSSP; P22897; 18GG.
DR Genew; HGNC:10799; SFTPA2.
DR Genew; HGNC:10798; SFTPA1.
DR MIM; 178630; -.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR Pfam; PF01391; Collagen; 2.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR GlycoProtein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat; Polymorphism.
FT SIGNAL 1 20
FT CHAIN 21 248
FT FT
FT DOMAIN 28 100
FT FT 153 248
FT DISULFID 155 246
FT DISULFID 224 238
FT CARBOHYD 207 207
FT VARIANT 9 9
FT VARIANT 50 50
FT VARIANT 66 66
FT VARIANT 73 73
FT VARIANT 81 81
FT VARIANT 85 85
FT VARIANT 219 219
FT VARIANT 223 223
FT VARIANT 19 19
FT CONFLICT 45 45
FT CONFLICT 54 54
FT CONFLICT 91 91
FT CONFLICT 100 100
FT CONFLICT 247 247
SQ SEQUENCE 248 AA; 26214 MW; 6A9F0C3488BF3633 CRC64;

Query Match 4.1%; Score 10; DB 1; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
Db 40 GLPGRDGRDG 49

RESULT 15
PSPA MOUSE STANDARD; PRT; 248 AA.
AC P35242;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
DE (PSP-A).
GN SFTPA1 OR SFTPA OR SFTP1 OR SFTP-1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;

```

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RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=DNA/2J;
RX MEDLINE=93072386; PubMed=14431158;
RA Korfliagen T.R., Bruno M.D., Glaeser S.W., Cirio P.J., Whitsett J.A.,
RA Lattier D.L., Wikenheiser K.A., Clark J.C.;
RT "Murine pulmonary surfactant SP-A gene: cloning, sequence, and
RT transcriptional activity.";
RL Am. J. Physiol. 263:L546-L554(1992).
CC - FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT
CC PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE
CC AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS
CC ESSENTIAL FOR NORMAL RESPIRATION.
CC - SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC - SUBCELLULAR LOCATION: Extracellular.
CC - MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC - SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC - SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
CC - This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC -----
DR EMBL; S48768; AAB24274.1; -
DR PIR; A48853; A48853.
DR HSSP; P35247; 1B08.
DR MGD; MG1:109518; Sftpa.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR Pfam; PF01391; Collagen; 2.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR GlycoProtein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat.
FT SIGNAL 1 20
FT CHAIN 21 248
FT FT
FT DOMAIN 28 100
FT FT 153 248
FT DISULFID 155 246
FT DISULFID 224 238
FT CARBOHYD 207 207
FT CARBOHYD 207 207
SQ SEQUENCE 248 AA; 26157 MW; 6688BF070E3EB9AE CRC64;

Query Match 4.1%; Score 10; DB 1; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
Db 40 GLPGRDGRDG 49

Search completed: June 20, 2003, 11:41:18
Job time : 18 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:31:09 ; Search time 31 Seconds

(without alignments)
1615.144 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 243
Sequence: 1 MRPLVLLGLAAGSPPLD.....DSTFGSLVSDMHSSPVFA 243

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 671580 seqs, 206047115 residues

Word size : 0

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

SPTREMBL_21:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_plant:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	25.5	243	11 Q8R002	Q8R002 mus musculu
2	11	4.5	27	4 Q9UCJ3	Q9UCJ3 homo sapien
3	11	4.5	289	5 Q19813	Q19813 caenorhabdi
4	11	4.5	306	2 Q9ACN2	Q9ACN2 streptococc
5	11	4.5	375	4 Q8TCD8	Q8TCD8 homo sapien
6	11	4.5	378	4 Q9N1X4	Q9N1X4 sus scrofa
7	10	4.1	57	6 Q02842	Q02842 papio cynoc
8	10	4.1	238	13 Q57451	Q57451 gallus galli
9	10	4.1	246	13 Q919Q7	Q919Q7 carassius a
10	10	4.1	248	6 Q9T06	Q9T06 ovis aries
11	10	4.1	248	6 Q9N0G1	Q9N0G1 equus caball
12	10	4.1	248	6 Q951A8	Q951A8 equus caball
13	10	4.1	248	11 Q9CQ11	Q9CQ11 mus musculu
14	10	4.1	254	13 Q987B4	Q987B4 gallus galli
15	10	4.1	256	13 Q919Q9	Q919Q9 cyprinus ca
16	10	4.1	282	5 Q8WP36	Q8WP36 suberites d

17	10	4.1	358	12 Q9J3U4	Q9J3U4 ectocarpus
18	10	4.1	447	12 Q9Y7U3	Q9Y7U3 ateline her
19	10	4.1	694	16 Q977A5	Q977A5 streptococ
20	10	4.1	812	5 Q06452	Q06452 ephyacia m
21	10	4.1	1761	5 Q18407	Q18407 drosophila
22	10	4.1	1940	5 Q9VWV5	Q9VWV5 drosophila
23	9	3.7	182	11 Q9CYS4	Q9CYS4 mus musculu
24	9	3.7	260	4 Q9UGS2	Q9UGS2 homo sapien
25	9	3.7	260	11 Q9QXU9	Q9QXU9 ratu
26	9	3.7	461	13 Q9QY19	Q9QY19 brachydanio
27	9	3.7	567	10 Q9SMQ3	Q9SMQ3 artemisia a
28	9	3.7	589	16 Q9AK64	Q9AK64 streptomyce
29	9	3.7	684	5 P90679	P90679 arenicola m
30	9	3.7	695	11 Q64348	Q64348 mus musculu
31	9	3.7	751	11 Q60709	Q60709 mus musculu
32	9	3.7	763	11 Q61482	Q61482 mus musculu
33	9	3.7	1752	5 Q07265	Q07265 strongyloce
34	9	3.7	2288	5 Q23081	Q23081 caenorhabdi
35	9	3.7	2315	5 Q952K3	Q952K3 ratu
36	8	3.3	46	11 Q63074	Q63074 ratu
37	8	3.3	52	16 Q9H209	Q9H209 pseudomonas
38	8	3.3	87	2 Q45313	Q45313 bacillus me
39	8	3.3	107	4 Q9BQY7	Q9BQY7 homo sapien
40	8	3.3	109	11 Q9CVJ2	Q9CVJ2 mus musculu
41	8	3.3	111	16 Q9RD99	Q9RD99 streptomyce
42	8	3.3	149	16 Q9JXB1	Q9JXB1 neisseria m
43	8	3.3	149	16 Q9JWV2	Q9JWV2 neisseria m
44	8	3.3	164	16 P74713	P74713 synecocyst
45	8	3.3	170	6 Q9GLV5	Q9GLV5 macaca mulla

ALIGNMENTS

RESULT 1

Q8R002 PRELIMINARY; PRT; 243 AA.

AC Q8R002;
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Similar to DKFZ568B0621 protein (hypothetical 25.4 kDa protein).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC023068; AAH23068.1; -
DR EMBL; BC025174; AAH25174.1; -
KW Hypothetical protein.

QY SEQUENCE 243 AA; 25420 MW; 498129CD051DB97B CRC64;

Query Match 25.5%; Score 62; DB 11; Length 243;
Best Local Similarity 100.0%; Pred. No. 4.8e-52;
Matches 62; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 182 FGMPKPRASISGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSPV 241
Db 182 FGMPKPRASISGAMVRLPEPDQVWVGVDYIGIYASIKTDSFGFLVSDMHSSPV 241

QY 242 FA 243
Db 242 FA 243

RESULT 2

09UCJ3
ID 09UCJ3 PRELIMINARY; PRT; 27 AA.
AC 09UCJ3:
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-JUN-2001 (TREMBlrel. 17, Last annotation update)
DE Surfactant protein D (Fragment).
OS Homo sapiens (Human).
OC Mammalia; Euteria; Chordata; Vertebrata; Euteleostomi;
OC NCBI_Taxid=9606;
RN (1)
RP SEQUENCE.
RX MEDLINE=93142849; PubMed=8424457;
RA Crouch E., Persson A., Chang D.;
RT "Accumulation of surfactant protein D in human pulmonary alveolar
RT proteinosis.";
RL Am. J. Pathol. 142:241-248(1993).
DR InterPro: IPR000087; Collagen.
SQ SEQUENCE 27 AA; 2696 MW; 8F770650E2A967CA CRC64;

Query Match 4.5%; Score 11; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.0028;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDR 55
|||||
DB 1 GLPGRDGRDR 11

RESULT 3
O19813 PRELIMINARY; PRT; 289 AA.
AC 019813:
DT 01-NOV-1996 (TREMBlrel. 01, Created)
DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE F26F12.1 protein.
CN F26F12.1
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Pelodierinae; Caenorhabditis.
OX NCBI_Taxid=6239;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=BRISTOL N2;
RX MEDLINE=99069613; PubMed=9851916;
RA None;
RT "Genome sequence of the nematode C. elegans: a platform for
RT investigating biology. The C. elegans Sequencing Consortium.";
RT Science 287:2012-2018(1998).
RN (2)
RP SEQUENCE FROM N.A.
RC STRAIN=BRISTOL N2;
RA Wilson R., Bentley D., Gattung S.;
RT "The sequence of C. elegans cosmid F26F12.";
RT Submitted (APR-1996) to the EMBL/Genbank/DBJ databases.
RN (3)
RP SEQUENCE FROM N.A.
RC STRAIN=BRISTOL N2;
RX Waterston R.;
RL Submitted (JUN-1999) to the EMBL/Genbank/DBJ databases.
DR EMBL; U55373; AAC25888.1; -.
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR002486; Col_cuticle_N.
DR Pfam; PF01391; Collagen; 3.
DR Pfam; PF01484; Col_cuticle_N; 1.
SQ SEQUENCE 289 AA; 28740 MW; DFFB78B2B34B29DF CRC64;

Query Match 4.5%; Score 11; DB 5; Length 289;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 80 GPRGEAGPAG 90
|||||
DB 222 GPRGEAGPAG 232

RESULT 4
O9ACN2 PRELIMINARY; PRT; 306 AA.
AC 09ACN2:
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE Sc1B protein.
GN SC1B
OS Streptococcus pyogenes.
OC Bacteria; Firmicutes; Bacillae; Clostridium group; Lactobacillales;
OC Streptococcaceae; Streptococcus.
OX NCBI_Taxid=1314;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=655;
RX MEDLINE=21097281; PubMed=11158359;
RA Whatmore A.M.;
RT "Streptococcus pyogenes sc1B encodes a putative hypervariable surface
RT protein with a collagen-like repetitive structure.";
RL Microbiology 147:419-429(2001).
DR EMBL; AJ301809; CAC33778.1; -.
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR001899; Gram_pos_anchor.
DR Pfam; PF01391; Collagen; 1.
DR Pfam; PF00746; Gram_pos_anchor; 1.
DR PRINTS; PR00015; GPOSANCHOR.
DR TIGRFAMs; TIGR01167; lpxTG anchor; 1.
DR PROSITE; PS00343; GRAM_POS_ANCHORING; UNKNOWN_1.
KM Transmembrane.
SQ SEQUENCE 306 AA; 31833 MW; 57EBDC244DF17600 CRC64;

Query Match 4.5%; Score 11; DB 2; Length 306;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 81 GPRGEAGPAG 91
|||||
DB 148 GPRGEAGPAG 158

RESULT 5
O8TCD8 PRELIMINARY; PRT; 375 AA.
AC 08TCD8:
DT 01-JUN-2002 (TREMBlrel. 21, Created)
DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE Hypothetical 37.7 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Euteria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_Taxid=9606;
RN (1)
RP SEQUENCE FROM N.A.
RC TISSUE=LUNG;
RA Strausberg R.;
RL Submitted (FEB-2002) to the EMBL/Genbank/DBJ databases.
DR EMBL; BC022318; AAH22318.1; -.
KW Hypothetical protein.
SQ SEQUENCE 375 AA; 37655 MW; CCB7375D3C86421A CRC64;

Query Match 4.5%; Score 11; DB 4; Length 375;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 46 GLPGRDGRDGR 56

RESULT 6

Q9N1X4 PRELIMINARY; PRT; 378 AA.

AC Q9N1X4; 09N1X4;

DT 01-OCT-2000 (TREMBlrel. 15, Created)

DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)

DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)

DE Lung surfactant protein D precursor.

GN SFTPL.

OS Sus scrofa (Pig).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suidae; Sus.

OX NCBI_TaxID=9823;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=20109098; PubMed=10640760;

RA van Eijk M., Haagsman H.P., Skinner T., Archibald A.L., Reid K.B.M., Lawson P.R.;

RT "Porcine Lung Surfactant Protein D (SP-D): cDNA cloning, chromosomal localization and tissue distribution."

RL J. Immunol. 164:1442-1450(2000).

DR EMBL; AF132496; AAF22145.2; -.

DR HSP; P35247; I808.

DR Interpro; IPR000087; Collagen.

DR Interpro; IPR001304; Lectin_C.

DR Pfam; PF01391; Collagen; 3.

DR Pfam; PF00059; lectin_c; 1.

DR Prodom; PD000007; Collagen; 2.

DR SMART; SM00034; CLECT; 1.

DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

KM Signal.

FT SIGNAL 1 20 POTENTIAL.

FT CHAIN 21 378 LUNG SURFACTANT PROTEIN D.

SQ SEQUENCE 378 AA; 37986 MW; 35048C1E56C34ID CRC64;

Query Match

Best Local Similarity 4.5%; Score 11; DB 6; Length 378;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDGR 55

Db 46 GLPGRDGRDGR 56

RESULT 7

002842 PRELIMINARY; PRT; 57 AA.

ID 002842; 002842;

AC 002842;

DT 01-JUN-1997 (TREMBlrel. 04, Created)

DT 01-JUN-1997 (TREMBlrel. 04, Last sequence update)

DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)

DE Surfactant protein A2 (Fragment).

OS Papio cynocephalus (Yellow baboon).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae; Cercopitheciinae; Papio.

OX NCBI_TaxID=9556;

OK [1]

RN SEQUENCE FROM N.A.

RP TISSUE=KIDNEY;

RX MEDLINE=97053398; PubMed=8897910;

RA Gao E., Wang Y., McCormick S.M., Li J., Seidner S.R., Mendelson C.R.;

RT "Characterization of two baboon surfactant protein A genes."

RL Am. J. Physiol. 271:L617-L630(1996).

RN [2]

RP SEQUENCE FROM N.A.

RC TISSUE=KIDNEY;

RA Gao E., Wang Y., McCormick S.M., Li J., Seidner S.R., Mendelson C.R.;

RL Submitted (MAY-1997) to the EMBL/Genbank/DBJ databases.

DR EMBL; AF003897; AAB61295.1; -.

DR EMBL; AF003896; AAB61294.1; -.

DR Interpro; IPR000087; Collagen.

DR Prodom; PD000007; Collagen; 1.

FT NON TER 57

SQ SEQUENCE 57 AA; 5584 MW; B25149EC822F643C CRC64;

Query Match

Best Local Similarity 4.1%; Score 10; DB 6; Length 57;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDGR 54

Db 40 GLPGRDGRDGR 49

RESULT 8

057451 PRELIMINARY; PRT; 238 AA.

ID 057451; 057451;

AC 057451;

DT 01-JUN-1998 (TREMBlrel. 06, Created)

DT 01-JUN-1998 (TREMBlrel. 06, Last sequence update)

DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)

DE Mannan-binding lectin (Fragment).

GN CMBL.

OS Gallus gallus (Chicken).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

OX NCBI_TaxID=9031;

RN [1]

RP SEQUENCE FROM N.A.

RX STRAIN=WHITE LEGHORN; TISSUE=LIVER;

RA Laursen S.B.;

RL Submitted (AUG-1997) to the EMBL/Genbank/DBJ databases.

DR EMBL; AF022226; AAB94071.1; -.

DR HSP; P19999; IYTT.

DR Interpro; IPR000087; Collagen.

DR Interpro; IPR001304; Lectin_C.

DR Pfam; PF01391; Collagen; 1.

DR Pfam; PF00059; lectin_c; 1.

DR Prodom; PD000007; Collagen; 1.

DR SMART; SM00034; CLECT; 1.

DR PROSITE; PS00615; C_TYPE_LECTIN_1; UNKNOWN_1.

DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

KM Lectin.

FT NON TER 238

SQ SEQUENCE 238 AA; 25645 MW; B5C9B5197AAB64E3 CRC64;

Query Match

Best Local Similarity 4.1%; Score 10; DB 13; Length 238;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDGR 54

Db 31 GLPGRDGRDGR 40

RESULT 9

091907 PRELIMINARY; PRT; 246 AA.

ID 091907; 091907;

AC 091907;

DT 01-OCT-2000 (TREMBlrel. 15, Created)

DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)

DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)

DE Mannose binding-like lectin precursor (Fragment).

GN MBL.

OS Carassius auratus (Goldfish).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Osteiophysi; Cypriniformes; Cyprinidae; Carassius.

OX NCBI_TaxID=7957;

RN [1]

RP SEQUENCE FROM N.A.
RC TISSUE=LIVER;
RX MEDLINE=20456722; PubMed=11003389;
RA Vitved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjodt K.;
RT "The homologue of mannose-binding lectin in the carp family Cyprinidae
is expressed at high level in spleen, and the deduced primary
structure predicts affinity for galactose.";
RT Immunogenetics 51:955-964(2000).
RL EMBL; AF227739; AAF63470.1; -.
DR HSSP; P35247; 1B08.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KM Lectin; Signal.
FT NON_TER 1 1
FT SIGNAL <1 13
FT VARIANT 145 145 S -> P.
SQ SEQUENCE 246 AA; 25709 MW; AB692282D289DD5 CRC64;
Query Match 4.1%; Score 10; DB 13; Length 246;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 45 GLPGRDGRDG 54
DB 35 GLPGRDGRDG 44
RESULT 10
O9706 PRELIMINARY; PRT; 248 AA.
ID O9706
AC O9706
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Pulmonary surfactant protein A (Pulmonary surfactant-associated
protein A).
DE SPAS OR SP-A.
GN Ovis aries (Sheep).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Caprinae; Ovis.
OX NCBI_TaxID=9940;
OX [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20215262; PubMed=10749753;
RA Brems G.A., Yao L.-J., Inchley K., Brickenden A., Han V.K.M.,
RA Gioia A., Challis J.R.G., Posemayer P.;
RT "Ovine surfactant protein CDNA: use in studies on fetal lung growth
and maturation after prolonged hypoxemia.";
RT Am. J. Physiol. 278:L764-L764(2000).
RL Am. J. Physiol. 278:L765-L778(2000).
DR EMBL; AF211856; AAF18995.1; -.
DR HSSP; P22897; 1B08.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.

SQ SEQUENCE 248 AA; 26394 MW; D65E7293BFF1FD9 CRC64;
Query Match 4.1%; Score 10; DB 6; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 45 GLPGRDGRDG 54
DB 40 GLPGRDGRDG 49
RESULT 11
O9N0G1 PRELIMINARY; PRT; 248 AA.
ID O9N0G1
AC O9N0G1
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Pulmonary surfactant protein A.
OS Equus caballus (Horse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX NCBI_TaxID=9796;
OX [1]
RP SEQUENCE FROM N.A.
RC STRAIN=THOROUGHRED; TISSUE=LUNG;
RA Hobo S.;
RT "Molecular cloning of equine pulmonary surfactant proteins.";
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB015963; BAA97976.1; -.
DR HSSP; P35247; 1B08.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 248 AA; 26000 MW; BBE12EF805C2B8D1 CRC64;
Query Match 4.1%; Score 10; DB 6; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 45 GLPGRDGRDG 54
DB 40 GLPGRDGRDG 49
RESULT 12
O95L88 PRELIMINARY; PRT; 248 AA.
ID O95L88
AC O95L88
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Pulmonary surfactant-associated protein A.
OS Equus caballus (Horse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX NCBI_TaxID=9796;
OX [1]
RP SEQUENCE FROM N.A.
RA Weber B.L., Hospes R., Gortner L.;
RT Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF400580; AAL07690.1; -.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; lectin_c; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 248 AA; 26047 MW; B71133E005C9A5C1 CRC64;

Query Match 4.1%; Score 10; DB 6; Length 248;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 GLPGRDGRDG 54
 Db 40 GLPGRDGRDG 49

RESULT 13
 Q9C011 PRELIMINARY; PRT; 248 AA.
 AC Q9C011; 01-JUN-2001 (TRENBLREL. 17, Created)
 DT 01-JUN-2001 (TRENBLREL. 17, Last sequence update)
 DT 01-JUN-2002 (TRENBLREL. 21, Last annotation update)
 DE Surfactant associated protein A.
 GN SPTPA.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=EMBRYO, AND LUNG;
 RX MEDLINE=21085660; PubMed=1121851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Atkawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Alzawa K., Iwawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
 RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
 RA Schiraldi L.M., Staahl F., Suzuki K., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Guetlinch S., Hill D., Hofmann M., Hume D.A., Kamita M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momberts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohlschki S.,
 RA Hayashizaki Y.;
 RA "Functional annotation of a full-length mouse CDNA collection."
 RT Nature 409:685-690(2001).
 RL EMBL; AK011333; BAB27551.1;
 DR EMBL; AK004620; BAB23416.1;
 DR EMBL; AK004788; BAB23565.1;
 DR HSSP; P35247; 1B08
 DR MGD; MGI:109518; Stpa.
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF01391; Collagen_2.
 DR Pfam; PF00059; lectin_c; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 SQ SEQUENCE 248 AA; 26183 MW; 8A5670CFAD3EB9B6 CRC64;

Query Match 4.1%; Score 10; DB 11; Length 248;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 GLPGRDGRDG 54
 Db 40 GLPGRDGRDG 49

RESULT 14
 Q98TA4 PRELIMINARY; PRT; 254 AA.

Q98TA4;
 DT 01-JUN-2001 (TRENBLREL. 17, Created)
 DT 01-JUN-2001 (TRENBLREL. 17, Last sequence update)
 DT 01-JUN-2002 (TRENBLREL. 21, Last annotation update)
 DE Mannose-binding lectin protein precursor.

OS Gallus gallus (Chicken)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OC NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.

RX MEDLINE=20456722; PubMed=11003389;
 RA Vltved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjodt K.;
 RT "The homologue of mannose-binding lectin in the carp family Cyprinidae
 is expressed at high level in spleen, and the deduced primary
 structure predicts affinity for galactose."
 RT Immunogenetics 51:955-964(2000).
 RL EMBL; AF231714; AAK30298.1; --

DR HSSP; P19999; 1YTT.
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR000005; HTHARAC.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF01391; Collagen; 1.
 DR Pfam; PF00059; Lectin_c; 1.
 DR ProDom; PD000007; Collagen; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS00041; HTH_ARAC_FAMILY_1; UNKNOWN_1.
 KW Lectin; Signal.
 FT SIGNAL 1 21 POTENTIAL.
 FT CHAIN 22 254 MANNOSE-BINDING LECTIN PROTEIN.
 FT VARIANT 234 234 D -> V.
 SQ SEQUENCE 254 AA; 27376 MW; C924428643441MD CRC64;

Query Match 4.1%; Score 10; DB 13; Length 254;
 Best Local Similarity 100.0%; Pred. No. 0.21;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 GLPGRDGRDG 54
 Db 47 GLPGRDGRDG 56

RESULT 15
 Q91909 PRELIMINARY; PRT; 256 AA.
 AC Q91909;
 DT 01-OCT-2000 (TRENBLREL. 15, Created)
 DT 01-OCT-2000 (TRENBLREL. 15, Last sequence update)
 DT 01-JUN-2002 (TRENBLREL. 21, Last annotation update)
 DE Mannose binding-like lectin precursor.
 GN MBL.
 OS Cyprinus carpio (Common carp).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Cyprinus.
 OC NCBI_TaxID=7962;
 RN [1]
 RP SEQUENCE FROM N.A.

RC TISSUE=LIVER;
 RX MEDLINE=20456722; PubMed=11003389;
 RA Vltved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjodt K.;
 RT "The homologue of mannose-binding lectin in the carp family Cyprinidae
 is expressed at high level in spleen, and the deduced primary
 structure predicts affinity for galactose."
 RT Immunogenetics 51:955-964(2000).
 RL EMBL; AF227737; AAF63468.1; --

DR HSSP; P35247; 1B08.
 DR InterPro; IPR000087; Collagen.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF01391; Collagen; 2.

DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 1.
KW lectin; signal.
FT SIGNAL 1 23 POTENTIAL.
FT CHAIN 24 256 MANNOSE BINDING-LIKE LECTIN.
FT VARIANT 235 235 S -> T.
SQ SEQUENCE 256 AA; 26934 MW; D019291D116730D CRC64;

Query Match 4.1%; Score 10; DB 13; Length 256;
Best Local Similarity 100.0%; Pred.No. 0.22;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 45 GLPGRDGRDG 54
|||
Db 45 GLPGRDGRDG 54

Search completed: June 20, 2003, 11:42:03
Job time : 33 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 08:43:49 ; Search time 62 Seconds
(without alignments)
522.256 Million cell updates/sec

Title: US-09-944-403-42
Perfect score: 1325
Sequence: 1 MRPLVLLGLAAGSPPLD.....DSTFGSLVYSWMHSEVFA 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_GenSeq_101002.*
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4: /SIDS2/gcgdata/geneseq/emb1/AA1983.DAT.*
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18: /SIDS2/gcgdata/geneseq/emb1/AA1997.DAT.*
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20: /SIDS2/gcgdata/geneseq/emb1/AA1999.DAT.*
21: /SIDS2/gcgdata/geneseq/emb1/AA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/emb1/AA2001.DAT.*
23: /SIDS2/gcgdata/geneseq/emb1/AA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1325	100.0	243	20	AAV06481 Human tumour-asso
2	1325	100.0	243	20	AAV17827 Human PRO344 prote
3	1325	100.0	243	20	AAW97984 Human adipocyte-sp
4	1325	100.0	243	21	AAAB3451 Human PRO344 prote
5	1325	100.0	243	21	AAV17468 Human PRO344 prote
6	1325	100.0	243	21	AAV93688 Amino acid sequenc
7	1325	100.0	243	21	AAAB01318 Human PRO344 polyp
8	1325	100.0	243	22	AAU12352 Human PRO344 polyp
9	1325	100.0	243	22	AAAB5815 Human TANCO 253 SE
10	1325	100.0	243	22	AAAB9593 Human adipocyte co

11	1325	100.0	243	22	AAAB9599 Human adipocyte co
12	1323	99.8	243	22	AAAB5891 Human secreted pro
13	1321	99.7	243	22	AAAB5888 Human secreted pro
14	1321	99.7	243	22	AAAB5889 Human secreted pro
15	1321	99.7	243	22	AAAB5890 Human secreted pro
16	1271	95.9	243	21	AAV76040 Rat skin cell prot
17	1271	95.9	243	22	AAAB5979 Skin cell protein,
18	1271	95.9	243	23	AAAB72179 Rat protein isolat
19	1258	94.9	243	22	AAAB5820 Murine mature TANCO
20	1256	94.8	243	22	AAAB5816 Murine mature TANCO
21	1256	94.8	243	22	AAAB5899 Murine secreted pr
22	1254	94.6	243	22	AAAB5897 Murine secreted pr
23	1254	94.6	243	22	AAAB5898 Murine secreted pr
24	1243.5	93.8	242	22	AAAB5896 Murine mature TANCO
25	1200	90.6	228	22	AAAB5821 Novel human diagno
26	1183	89.3	220	22	AAAB12724 Human secreted pro
27	1048	79.1	201	22	AAAB21663 Human secreted pro
28	675	50.9	128	22	AAAB65819 Human TANCO 253 Cl
29	650	49.1	128	22	AAAB65824 Human TANCO 253 C
30	478	36.1	151	22	ABG12723 Novel human diagno
31	449.5	33.9	225	23	ABBB0583 Human sbg1033026C1
32	442.5	33.4	333	23	ABBB0582 Human sbg1033026C1
33	433.5	32.7	247	18	AAW09107 Mouse OBG3 protein
34	433.5	32.7	247	22	AAW05528 Mouse OBG3 protein
35	433.5	32.7	247	23	ABBB0582 Mouse acrp30 prote
36	425	32.1	244	18	AAW09108 Mouse OBG3 protein
37	424.5	32.0	247	23	ABBB0527 Mouse adipoc prote
38	424.5	32.0	247	20	AAW21807 Adipose most abund
39	424	32.0	244	21	AAAB30233 Human adipocyte co
40	424	32.0	244	21	AAV17035 Human AFW1 (Adipos
41	424	32.0	244	21	AAW05529 Human OBG3 protein
42	424	32.0	244	22	AAAB5828 Human adipocyte co
43	424	32.0	244	22	AAAB49592 Human ACRP30 prote
44	424	32.0	244	22	AAAB49592 Human ACRP30 prote
45	424	32.0	244	22	AAAB49592 Human ACRP30 prote

ALIGNMENTS

RESULT 1	AAV06481	standard; Protein; 243 AA.
XX	AAV06481	
AC	AAV06481	
XX	27-SEP-1999	(first entry)
DT	27-SEP-1999	
XX	Human tumour-associated protein PRO344.	
DE	Human tumour-associated protein PRO344.	
XX	PRO344; UNQ303; cancer; tumour; diagnosis; therapy; human.	
KW	PRO344; UNQ303; cancer; tumour; diagnosis; therapy; human.	
XX		
OS	Homo sapiens.	
XX		
XX		
FH	Key	Location/Qualifiers
FT	Peptide	1..15
FT	/note= "signal peptide"	16..243
FT	Protein	/note= "mature protein"
FT	Modified-site	68..215
FT	/note= "N-myristoylated"	216..243
FT	Modified-site	/note= "N-myristoylated"
XX		
PN	WO9935170-A2.	
XX		
XX	15-JUL-1999.	
PD		
XX		
XX	05-JAN-1999;	99WO-US00106.
PF		
XX		
XX	20-NOV-1998;	98US-0109304.
PR	05-JAN-1998;	98US-0070440.
PR	29-APR-1998;	98US-0083500.

Query Match	Best Local Similarity	100.0%	Score 1325	DB 20	Length 243	
Matches 243	Conservative	0	Mismatches	0	Indels	0
QY 1	MRPLVLVLLLLGLAAGSPPLDNNKIPSLCPGHGFLPGTFCGHHSOGLPGRDGRDGRDGA	60				
Db 1	MRPLVLVLLVLLGLAAGSPPLDNNKIPSLCPGHGFLPGTFCGHHSOGLPGRDGRDGRDGA	60				
QY 61	APGKGGGGRGRLPGPRDPCGPRGAGPAGPTGPAEGSCVPPRPAFSAKRSRRVPPSD	120				
Db 61	APGKGGGGRGRLPGPRDPCGPRGAGPAGPTGPAEGSCVPPRPAFSAKRSRRVPPSD	120				
QY 121	APLPFDRVLVNEOGHYDAVTKFCQVGVGVYFAVAHATVYRASLQFDLVKNGESTIASPQ	180				
Db 121	APLPFDRVLVNEOGHYDAVTKFCQVGVGVYFAVAHATVYRASLQFDLVKNGESTIASPQ	180				
QY 181	FFGMPKPRASISGGMVLRLEPEDQVWVGVDYIGITIASIKTSTPFGFLVYSDMHSP	240				
Db 181	FFGMPKPRASISGGMVLRLEPEDQVWVGVDYIGITIASIKTSTPFGFLVYSDMHSP	240				
QY 241	VFA 243					
Db 241	VFA 243					

RESULT 2
AAV17827
ID AAV17827 standard; Protein, 243 AA.

AAV17827;
XX AC
XX AAV17827;
XX D7
XX 12-AUG-1999 (first entry)
XX DE
XX Human PRO344 protein sequence.
XX Human, PRO protein; tumour necrosis factor family; TNF; cytokine;
XX secreted protein; transmembrane protein; inflammation disorder.
XX Homo sapiens.
XX

XX 22-MAY-1998; 98US-0086414.
XX 10-JUN-1998; 98US-0086742.
XX 10-NOV-1998; 98US-0107783.
XX (GETH) GENENTECH INC.
XX Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;
XX Roy MA, Wood WI;
XX WPI, 1999-430385/36.
XX N-PSDB; AAX87258.
XX
XX Antibody against proteins expressed in neoplastic cells, useful for
XX tumor diagnosis and treatment
XX
XX Example 1; Fig 10; 162pp; English.
XX
XX This sequence represents human PRO344 (UNQ303), a protein encoded
XX by the novel cDNA clone DNA40592 (see AAX87258). Amplification of
XX DNA40592 was observed in primary lung tumours and in primary colon
XX tumours, suggesting a significant role in tumour formation and
XX growth. Antagonists (e.g. antibodies) directed to PRO344 may have
XX use in cancer therapy. The invention identifies 14 genes (see
XX AAX87254-67) that are amplified in the genome of tumour cells. Such
XX amplification is expected to be associated with overexpression of
XX the gene product and to contribute to tumorigenesis. The encoded
XX proteins (see AAX06477-90) may be useful targets for the diagnosis
XX and/or treatment (including prevention) of certain cancers, and may
XX act as predictors of the prognosis of tumour treatment. Antibodies
XX that bind the proteins are claimed and used in claimed cancer
XX diagnostic kits.
XX
XX Sequence 243 AA;

Query Match	100.0%	Score 1325	DB 20	Length 243
Best Local Similarity	100.0%	Pred. No. 5.3e-103		
Matches 243	Conservative 0	Mismatches 0	Indels 0	Gaps 0
Sequence 243 AA				
Query	1 MRPLVLLVLLGLAAGSPPLDDNKKIPSLCPGHPGLPTGTHHGSQGLPGRDGRDGRDAGC	60		
Db	1 MRPLVLLVLLGLAAGSPPLDDNKKIPSLCPGHPGLPTGTHHGSQGLPGRDGRDGRDAGC	60		
QY	61 APEKSEGGRRPGLPGPRGDPGRGSGAGPTGPAEGCSVPKSAFSAKTSSESVPPSPD	120		
Db	61 APEKSEGGRRPGLPGPRGDPGRGSGAGPTGPAEGCSVPKSAFSAKTSSESVPPSPD	120		
QY	121 APPLPDRVLVNEQGHDAVTGKFTQVGVYVFAVHATVVRASIQPDLVNXGESSIAFFQ	180		
Db	121 APPLPDRVLVNEQGHDAVTGKFTQVGVYVFAVHATVVRASIQPDLVNXGESSIAFFQ	180		
QY	181 FRGSMKRPASISGGAMVRLPEPDQVWVGVDYIGIYASIKTSTSSGFLVYSDDHSSP	240		
Db	181 FRGSMKRPASISGGAMVRLPEPDQVWVGVDYIGIYASIKTSTSSGFLVYSDDHSSP	240		
QY	241 VFA 243			
Db	241 VFA 243			

ID	AAW97984 standard; Protein; 243 AA.
AC	AAW97984;
DT	21-JUN-1999 (first entry)
DE	Human adipocyte-specific protein zsig39.
XX	
KW	Adipocyte-specific protein; zsig39; human; fatty acid metabolism; energy balance; nutrition; antimicrobial.
OS	Homo sapiens.
XX	
Key	Location/Qualifiers
Peptide	1..15
	/note= "signal peptide, alternatively the signal peptide comprises residues 1..18"
Protein	16..243
	/note= "mature protein, alternatively the mature protein comprises residues 19..243 (specifically claimed in Claim 4)"
Domain	30..96
	/note= "collagen-like domain"
Domain	98..243
	/note= "globular domain"
Region	105..109
	/note= "beta strand"
Region	128..130
	/note= "beta strand"
Region	136..139
	/note= "beta strand"
Region	143..146
	/note= "beta strand"
Region	164..171
	/note= "beta strand"
Region	176..182
	/note= "beta strand"
Region	187..200
	/note= "beta strand"
Region	204..210
	/note= "beta strand"
Region	226..231
	/note= "beta strand"
Domain	111..135
	/note= "receptor binding domain"
Domain	170..174
	/note= "receptor binding domain"
MO9910492-AL.	
04-MAR-1999.	
26-AUG-1998;	98WO-US17724.
26-AUG-1997;	97US-0056983.
(ZYMO) ZYMOGENETICS INC.	
Humes JM, Sheppard PO,	
WPI; 1999-204665/17.	
N-PSDB; AAX24684.	
Zsig39 protein - used to modulate fatty acid metabolism	
Claim 1; 111-112, 132pp; English.	

CC	methionine start site, a hydrophobic region of approximately 13
CC	amino acids and a cleavage site. A single EST sequence was
CC	discovered, and the novel polypeptide encoded by the full-length
CC	cDNA allowed the identification of a homologue relationship with
CC	adipocyte complement related protein Acp30 and adipocyte secreted
CC	protein apm1. A full-length clone (see AAB24684) was obtained from a
CC	lung tissue library. Expression vectors, cultured cells and a
CC	method of producing zsig39 polypeptide are claimed, as well as
CC	zsig39 polypeptides having N- or C-terminal affinity tags, toxins,
CC	radioactive labels, enzymes or fluorophores, fusion proteins
CC	including zsig39 polypeptides, an antibody that specifically
CC	binds to an epitope of zsig39, and a method for modulating free
CC	fatty acid metabolism by administering a zsig39 polypeptide. The
CC	zsig39 polypeptide may also be used in organ preservation, for
CC	cryopreservation, for surgical pretreatment to prevent injury due
CC	to ischaemia and/or inflammation, and as an antimicrobial agent,
CC	promoting lysis or phagocytosis of infectious agents.
CC	
XX	
XX	Sequence 243 AA;
XX	
XX	Query Match 100.0%; Score 1325; DB 20; Length 243;
XX	Best Local Similarity 100.0%; Pred. No. 5.3e-103; Indels 0; Gaps 0;
XX	Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 MRPLVLVLLGLAAGSPPLDNDNKIPSLCPGHPLGPTPGHHGSGQLPGRDGRDGDGAG 60
DB	1 MRPLVLVLLGLAAGSPPLDNDNKIPSLCPGHPLGPTPGHHGSGQLPGRDGRDGDGAG 60
QY	61 APGKGKGGRPGPLGPPGDPGPRGEBAPAGTGTGAGCSVPRRPAFAKSESVPSPSD 120
DB	61 APGKGKGGRPGPLGPPGDPGPRGEBAPAGTGTGAGCSVPRRPAFAKSESVPSPSD 120
QY	121 APLEPFDVLVNEQGHYDAVTGKFCQVPGVYFAFVAHTVYRASIQFDLVNKGESIASFPQ 180
DB	121 APLEPFDVLVNEQGHYDAVTGKFCQVPGVYFAFVAHTVYRASIQFDLVNKGESIASFPQ 180
QY	181 PFGGWPFRPASISGGMVRLRLEBEDQVWQVGVDTITGIYASIKTDTSTSGFLVSDMHSSP 240
DB	181 PFGGWPFRPASISGGMVRLRLEBEDQVWQVGVDTITGIYASIKTDTSTSGFLVSDMHSSP 240
QY	241 VFA 243
DB	241 VFA 243
XX	
XX	RESULT 4
XX	AAB33461
XX	ID AAB33461 standard; Protein; 243 AA.
XX	AC AAB33461;
XX	DT 29-JAN-2001 (first entry)
XX	Human PRO344 protein UNQ303 SEQ ID NO:241.
XX	Human; immune related disease; diagnosis; antiinflammatory; cardiant;
KM	dermatological; antiarthritic; arthreumatic; immunosuppressive;
KM	haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
KM	antianaemic; hepatotropic; vitruide; antiproliferic; antiallergic;
KM	antiaesthatic; systemic lupus erythematosus; rheumatoid arthritis;
KM	osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
KM	idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KM	systemic vasculitis; autoimmune haemolytic anemia; diabetes mellitus;
KM	autoimmune thrombocytopaenia; immune-mediated renal disease;
KM	demyelinating disease; hepatobiliary disease; Whipple's disease;
KM	inflammatory bowel disease; gluten-sensitive enteropathy;
KM	autoimmune disease; immune-mediated skin disease; allergic disease;
KM	immunological disease; transplantation associated disease;
XX	graft rejection; graft-versus-host-disease.
OS	Homo sapiens
XX	
XX	WO200053758-A2.

XX 14-SEP-2000.
PD
XX
PF 02-MAR-2000; 2000WO-US05841.
XX
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99US-0123618.
PR 12-MAR-1999; 99US-0123957.
PR 23-MAR-1999; 99US-0125775.
PR 12-APR-1999; 99US-0128849.
PR 20-APR-1999; 99WO-US08615.
PR 28-APR-1999; 99US-0131445.
PR 04-MAY-1999; 99US-0133731.
PR 14-MAY-1999; 99US-0134287.
PR 02-JUN-1999; 99WO-US12252.
PR 23-JUN-1999; 99US-0141037.
PR 20-JUL-1999; 99US-0144758.
PR 26-JUL-1999; 99US-0145698.
PR 28-JUL-1999; 99US-0146222.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US23089.
PR 29-OCT-1999; 99US-0162506.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 30-NOV-1999; 99WO-US28409.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 16-DEC-1999; 99WO-US28565.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30999.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
XX
PA
PA (GERTH) GENENTECH INC.
PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W,
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Skewett TR, Tamas D, Watanabe CK, Wood WL, Yan M;
DR N-PSDB; AAC58626.
XX
DR WPI; 2000-572271/53.
PT
PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
XX
PS Claim 33; Fig 96; 309pp; English.

The present invention describes sixty four human PRO proteins which can be used in the treatment of immune related diseases. The human PRO proteins, anti-PRO antibodies, agonists and antagonists are useful for treating and diagnosing immune related disorders. The disorders are selected from systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal disease, demyelinating diseases of the central and peripheral nervous system, hepatobiliary diseases, inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune or immune-mediated skin diseases, allergic diseases,

XX	CC	immunological diseases of the lung, and transplantation associated
CC	CC	diseases including graft rejection and graft-versus-host-disease.
CC	CC	AAC58397 to AAC58578 represent PCR primers and hybridisation probes used
CC	CC	in the isolation of human PRO sequences. AAC58579 to AAC58642 and
CC	CC	AAB33414 to AAB33477 represent human PRO polynucleotide and protein
CC	CC	sequences given in the exemplification of the present invention.
XX	XX	
SQ	Sequence	243 AA;
Query Match	100.0%;	Score 1325; DB 21; Length 243;
Best Local Similarity	100.0%;	Pred. No. 5.3e-103;
Matches 243;	Conservative 0;	Mismatches 0; Indels 0; Gaps 0
QY	1	MRPLVLLVLLGLAAGSPPLDNDKI.PSLCRGHPLPCTGCHHCSOGL.PGRDGDGRDAGP 60
Db	1	MRPLVLLVLLGLAAGSPPLDNDKI.PSLCRGHPLPCTGCHHCSOGL.PGRDGDGRDAGP 60
QY	61	APGKGGEGRGPGLPGPRDPPGRGAGPAGTGPAGGECVPPRSAFSAKRSRRVPPSD 120
Db	61	APGKGGEGRGPGLPGPRDPPGRGAGPAGTGPAGGECVPPRSAFSAKRSRRVPPSD 120
QY	121	APLPDRVLVNEQGHYDAVTGKFTQCQVDPGVYTFVAHVATVTRASLPDLVKNGESIASFPQ 180
Db	121	APLPDRVLVNEQGHYDAVTGKFTQCQVDPGVYTFVAHVATVTRASLPDLVKNGESIASFPQ 180
QY	181	FFGGMPPRPAISLGGAMVRLBEDDQVQVGVGDIYIGIYASIKTSTFSGLVYSNMHSSP 240
Db	181	FFGGMPPRPAISLGGAMVRLBEDDQVQVGVGDIYIGIYASIKTSTFSGLVYSNMHSSP 240
QY	241	VFA 243
Db	241	VFA 243
RESULT 5		
AAV71468		
ID	AAV71468	standard; Protein; 243 AA.
XX	AAV71468;	
XX	08-NOV-2000	(first entry)
XX	Human PRO344	protein.
XX	PRO344;	DNA40592-1242; human; ATCC No: 209492; antiproliferative;
KW	KW	neoplastic cell growth inhibitor; cytosarctic; treatment; cancer; tumour;
KW	KW	breast; prostate; colon; lung; renal; ovarian; central nervous system;
KW	KW	CNS; leukemia; melanoma; Expressed Sequence Tag; EST; secreted protein;
KW	KW	extracellular domain; ECD.
XX	Homo sapiens.	
XX	OS	
XX	Key	Location/Qualifiers
FT	Peptide	1..15
FT	Modified-site	/label= Signal_peptide
FT	Protein	11..17
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	16..243
FT	Modified-site	/label= Mature_PRO344_protein
FT	Modified-site	68..74
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	77..80
FT	Modified-site	/note= "Cell attachment sequence"
FT	Modified-site	216..222
FT	Modified-site	/note= "N-myristoylation site"
XX	MO200032778-A2.	
XX	08-JUN-2000.	
XX	30-NOV-1999;	99WO-US28409.
XX	01-DEC-1998;	98WO-US25108.
XX		

PR 16-DEC-1998; 98US-0112850.
 PR 22-DEC-1998; 98US-0113296.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Chen J, Goddard A, Gurney AL, Hillan K, Napier W, Wood WI;
 XX
 DR WPI; 2000-412325/35.
 XX
 N-P5DB; AAD01241.
 PT
 PT New composition useful for inhibiting neoplastic cell growth and for
 PT treating cancers, comprises PRO655, PRO344 or PRO364 polypeptide or
 PT their antagonists
 XX
 PS Claim 31; Fig 6; 108bp; English.
 CC
 CC The present sequence is the human PRO344 protein, encoded by the cDNA
 CC clone, designated as DNA40592-1242. It is isolated from human foetal
 CC lung tissue, cDNA library, identified using probes based on a consensus
 CC sequence DNA4398, derived from secreted protein extracellular domain
 CC (BCD) expressed sequence tag (EST). This clone is assigned ATCC deposit
 CC No. 209492. PRO344 functions as a neoplastic cell growth inhibitor and
 CC is used for treating tumours, using an effective amount of PRO655, PRO364
 CC and PRO344. This composition is especially useful for treatment of human
 CC cancers such as breast, prostate, colon, lung, renal, ovarian and CNS,
 CC leukemia and melanoma.
 CC
 XX
 SO Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLGLAGSPPLDNDKIPSLCPGHPGLPGTGHGSGGLRGDRDQAPG 60
 DB 1 MRPLVLLGLAGSPPLDNDKIPSLCPGHPGLPGTGHGSGGLRGDRDQAPG 60
 QY 61 APGKGGGRGRLPGPRGDPGPRGAGPAGTGCAGGSCVPPRPAFAKRSSESVPPSPD 120
 DB 61 APGKGGGRGRLPGPRGDPGPRGAGPAGTGCAGGSCVPPRPAFAKRSSESVPPSPD 120
 QY 121 APLPFDVVLVNEQGHYDAVGTGKTCQVPGVYFAVHATVYRASIQFDLVNKGESIASFPQ 180
 DB 121 APLPFDVVLVNEQGHYDAVGTGKTCQVPGVYFAVHATVYRASIQFDLVNKGESIASFPQ 180
 QY 181 FPGGMPKPAISLGGAMWRLPEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
 DB 181 FPGGMPKPAISLGGAMWRLPEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 6
 AAY93688
 ID AAY93688 standard; Protein; 243 AA.
 XX
 AC AAY93688;
 XX
 DT 03-OCT-2000 (first entry)
 XX
 DE Amino acid sequence of novel polypeptide PRO344.
 XX
 KM PRO201; PRO22; PRO27; PRO1265; PRO344; PRO343; PRO347; PRO357;
 KM PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
 KM tumorigenesis; cancer; neoplastic cell growth; cell proliferation.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers

FT Peptide 1..15
 FT /note= "signal peptide"
 FT Modified-site 11..17
 FT /note= "N-myristoylation site"
 FT Modified-site 68..74
 FT /note= "N-myristoylation site"
 FT Region 77..80
 FT /note= "Cell attachment sequence"
 FT Modified-site 216..222
 FT /note= "N-myristoylation site"
 XX
 PN W0200037640-A2.
 XX
 XX 29-JUN-2000.
 PD
 PD 16-DEC-1999; 99WO-US30095.
 PF
 PF 22-DEC-1998; 98US-0113296.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;
 PI Wood WI;
 XX
 DR WPI; 2000-452188/39.
 DR N-P5DB; AAA46907.
 XX
 XX
 PT New anti-polypeptide antibody useful in the treatment and diagnosis of
 PT neoplastic cell growth and proliferation -
 FT
 PS Claim 61; Fig 10; 220bp; English.
 CC
 CC The present sequence represents a novel human polypeptide. The
 CC specification describes novel polypeptides designated PRO201, PRO292,
 CC PRO327, PRO1265, PRO344, PRO343, PRO347, PRO715, PRO1017,
 CC PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in
 CC the genome of tumour cells. The polypeptides are believed to contribute
 CC to tumorigenesis. The polypeptides are useful target for the
 CC identification of certain cancers, and may act as predictors of the
 CC prognosis of tumour treatment. Antibodies against these polypeptides
 CC are useful in the treatment and diagnosis of neoplastic cell growth
 CC and proliferation in mammals.
 CC
 XX
 SO Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLGLAGSPPLDNDKIPSLCPGHPGLPGTGHGSGGLRGDRDQAPG 60
 DB 1 MRPLVLLGLAGSPPLDNDKIPSLCPGHPGLPGTGHGSGGLRGDRDQAPG 60
 QY 61 APGKGGGRGRLPGPRGDPGPRGAGPAGTGCAGGSCVPPRPAFAKRSSESVPPSPD 120
 DB 61 APGKGGGRGRLPGPRGDPGPRGAGPAGTGCAGGSCVPPRPAFAKRSSESVPPSPD 120
 QY 121 APLPFDVVLVNEQGHYDAVGTGKTCQVPGVYFAVHATVYRASIQFDLVNKGESIASFPQ 180
 DB 121 APLPFDVVLVNEQGHYDAVGTGKTCQVPGVYFAVHATVYRASIQFDLVNKGESIASFPQ 180
 QY 181 FPGGMPKPAISLGGAMWRLPEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
 DB 181 FPGGMPKPAISLGGAMWRLPEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240

Oy 241 VFA 243
 Db 241 VFA 243

RESULT 7
 AAB01318
 ID AAB01318 standard; Protein; 243 AA.

XX AAB01318;
 AC 25-SEP-2000 (first entry)
 DT
 XX
 DE Human PRO344 polypeptide.

XX PRO; membrane bound protein; secreted protein; PRO357; PRO327;
 KW PRO243; PRO715; PRO241; PRO23; PRO239; PRO344; PRO347;
 KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
 KW antibody; screening; detection; inhibition; probe; primer; human.
 XX
 OS Homo sapiens.

XX Key
 FH Peptide
 FT Location/Qualifiers
 FT 1..15
 FT /label= Signal peptide
 FT Modified-site
 FT 11..17
 FT /note= "N-myristoylation site"
 FT Modified-site
 FT 68..74
 FT /note= "N-myristoylation site"
 FT Region
 FT 77..80
 FT /label= Cell attachment sequence
 FT Modified-site
 FT 216..222
 FT /note= "N-myristoylation site"

XX MO200032776-A2.
 XX 08-JUN-2000.
 XX
 XX 01-DEC-1999; 99WO-US28301.
 XX
 XX 01-DEC-1998; 98WO-US25108.
 XX 16-DEC-1998; 98US-0112850.
 XX 22-DEC-1998; 98US-0113296.
 XX
 XX (GERTH) GENENTECH INC.
 XX
 XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E,
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL,
 PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WT;
 XX WPI; 2000-412324/35.
 XX N-PSDB; AAA49560.

XX New human nucleic acids encoding secreted and transmembrane
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical
 PT and diagnostic agents
 PT
 XX
 PS Claim 12; Fig 18; 187pp; English.

XX New human nucleic acids encoding secreted and transmembrane
 CC polypeptides which are designated as PRO polypeptides are described
 CC The membrane-bound proteins have various industrial applications,
 CC including as pharmaceutical and diagnostic agents. The membrane-bound
 CC proteins can also be employed for screening of potential peptide or
 CC small molecule inhibitors of the relevant receptor/ligand interaction.
 CC Anti-PRO antibodies are useful for the affinity purification of PRO
 CC from recombinant cell culture or natural sources.

XX Sequence 243 AA;
 SQ

Query Match 100.0%; Score 1325; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDGAPG 60
 Db 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDGAPG 60

Oy 61 APGEKGGGRPGLPGRGDDPGPRGAGPAGPTGAGGECVPPRASFSAKRSRPPSPD 120
 Db 61 APGEKGGGRPGLPGRGDDPGPRGAGPAGPTGAGGECVPPRASFSAKRSRPPSPD 120

Oy 121 APLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFPAVHAIVYRASIQFDLVKNGESIASFPQ 180
 Db 121 APLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFPAVHAIVYRASIQFDLVKNGESIASFPQ 180

Oy 181 PFGGMPYRPASISGAMVRLBEPDQVWVQVGVGYIYIYASIKTUSTPSGFLVYSDMHSSP 240
 Db 181 PFGGMPYRPASISGAMVRLBEPDQVWVQVGVGYIYIYASIKTUSTPSGFLVYSDMHSSP 240

Oy 241 VFA 243
 Db 241 VFA 243

RESULT 8
 AAU12352
 ID AAU12352 standard; Protein; 243 AA.

XX AAU12352;
 AC
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human PRO344 polypeptide sequence.

XX Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy.
 XX
 OS Homo sapiens.
 XX
 XX MO200140466-A2.
 XX
 XX 07-JUN-2001.
 XX
 XX 01-DEC-2000; 2000WO-US32678.
 XX
 XX 01-DEC-1999; 99WO-US28301.
 XX 01-DEC-1999; 99WO-US28634.
 XX 02-DEC-1999; 99WO-US28551.
 XX 02-DEC-1999; 99WO-US28554.
 XX 02-DEC-1999; 99WO-US28565.
 XX 09-DEC-1999; 99US-0170262.
 XX 16-DEC-1999; 99WO-US30911.
 XX 20-DEC-1999; 99WO-US30999.
 XX 30-DEC-1999; 99WO-US31243.
 XX 06-JAN-2000; 2000WO-US00277.
 XX 06-JAN-2000; 2000WO-US00376.
 XX 11-FEB-2000; 2000WO-US03565.
 XX 18-FEB-2000; 2000WO-US04341.
 XX 18-FEB-2000; 2000WO-US04342.
 XX 22-FEB-2000; 2000WO-US04414.
 XX 24-FEB-2000; 2000WO-US04914.
 XX 24-FEB-2000; 2000WO-US05004.
 XX 01-MAR-2000; 2000WO-US05601.
 XX 20-MAR-2000; 2000WO-US07377.
 XX 21-MAR-2000; 2000WO-US07532.
 XX 30-MAR-2000; 2000WO-US08439.
 XX 17-MAY-2000; 2000WO-US13705.
 XX 22-MAY-2000; 2000WO-US14042.
 XX 30-MAY-2000; 2000WO-US14941.
 XX 02-JUN-2000; 2000WO-US15264.
 XX 10-NOV-2000; 2000WO-US30873.
 XX

PA (GENTH) GENENTECH INC.
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerlitsen ME, Goddard A, Godowski PJ, Gunney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WL, Zhang Z;
 DR WPI, 2001-408281/43.
 DR N-PSDB; AAS21424.
 XX
 XX Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical
 XX
 XX Claim 12; Fig 362; 813pp; English.
 XX
 XX AAU2172-AAU21446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumor necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 CC
 XX
 SO Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 22; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAPG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAPG 60
 QY 61 APGEKGGGRGRLPGPRGDPGRGAGPAGPTGAGGCSVPPRSASFASKRSSESVPPSPD 120
 DB 61 APGEKGGGRGRLPGPRGDPGRGAGPAGPTGAGGCSVPPRSASFASKRSSESVPPSPD 120
 QY 121 APLPDRVLVNEOGHYDAVTGKFTCOVGVYVFAVHAIVYRASLOPLVKNKESIASFFQ 180
 DB 121 APLPDRVLVNEOGHYDAVTGKFTCOVGVYVFAVHAIVYRASLOPLVKNKESIASFFQ 180
 QY 181 FFGGMPKPRASISGAMWRLPEPDQVWVGVGYIGIYASIKTDSFGFLVYSDWHSSP 240
 DB 181 FFGGMPKPRASISGAMWRLPEPDQVWVGVGYIGIYASIKTDSFGFLVYSDWHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 9
 ID AAB65815
 ID AAB65815 standard; Protein; 243 AA.

XX AAB65815;
 AC
 XX 28-MAR-2001 (first entry)
 DT
 XX Human TANGO 253 SEQ ID NO: 3.

XX
 KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KW INTERCEPT 256; coronary disorder; olfactory disorder;
 KW neurological disorder; pulmonary disorder; immunological disorder;
 KW developmental disorder; kidney disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200078808-A1.
 XX
 XX 28-DEC-2000.
 PD
 XX 19-JUN-2000; 2000WO-US16883.
 PF
 XX 18-JUN-1999; 99US-0336536.
 PR
 XX (MILL-) MILLENNIUM PHARM INC.
 PA
 PI Leiby KR, McKay C, Bossone S;
 PI WPI, 2001-050109/06.
 DR
 XX New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma
 XX
 PS Claim 9; Page 211-212; 332pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 CC
 XX
 SO Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 22; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAPG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGDAPG 60
 QY 61 APGEKGGGRGRLPGPRGDPGRGAGPAGPTGAGGCSVPPRSASFASKRSSESVPPSPD 120
 DB 61 APGEKGGGRGRLPGPRGDPGRGAGPAGPTGAGGCSVPPRSASFASKRSSESVPPSPD 120
 QY 121 APLPDRVLVNEOGHYDAVTGKFTCOVGVYVFAVHAIVYRASLOPLVKNKESIASFFQ 180
 DB 121 APLPDRVLVNEOGHYDAVTGKFTCOVGVYVFAVHAIVYRASLOPLVKNKESIASFFQ 180
 QY 181 FFGGMPKPRASISGAMWRLPEPDQVWVGVGYIGIYASIKTDSFGFLVYSDWHSSP 240
 DB 181 FFGGMPKPRASISGAMWRLPEPDQVWVGVGYIGIYASIKTDSFGFLVYSDWHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 10
 ID AAB49593
 ID AAB49593 standard; Protein; 243 AA.

XX AAB49593;
 AC
 XX 13-MAR-2001 (first entry)
 DT
 XX Human adipocyte complement related protein homolog zs1g39.
 DE
 XX Human; zacrps; gene therapy; complement inhibition; C1q domain;

KW adipocyte complement related protein homolog;
 KW inflammation; hormone secretion; inositol phosphate; arachidonate;
 KW phospholipase C activation; gastric emptying; neutrophil activation;
 KW superoxide anion production; antimicrobial; acute vascular injury;
 KW wound healing; zsig39.

OS Homo sapiens.

PN M0200073444-A1.

PD 07-DEC-2000.

PF 18-MAY-2000; 2000MO-US13608.

PR 27-MAY-1999; 99US-0321372.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Sheppard PO;

DR WPI; 2001-061531/07.

PT Novel adipocyte complement related protein homolog, ZACRP5, useful for
 PT diagnosing and treating inflammation, vascular injury microbial
 PT infections, and in wound healing

PS Disclosure; Fig 1; 121pp; English.

XX The present invention relates to human adipocyte complement related
 CC protein homolog, zacrp5 protein and coding sequence (see AAB49599 and
 CC AAC90045). ZACRP5 has a carboxyl-terminal C1q domain. The zacrp5 gene is
 CC located on human chromosome 16. zacrp5 gene and protein are useful for
 CC diagnosing and treating inflammations, for determining arterial
 CC remodeling, for modulating calcium ion concentration, hormone
 CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
 CC arachidonate release, phospholipase C activation, gastric emptying, human
 CC neutrophil activation or ADCC capability and superoxide anion production.
 CC zacrp5 gene and protein are also useful as antimicrobial applications,
 CC preferably against bacteria and virus, for complement inhibition, for
 CC treating acute vascular injury, and for wound healing. The present
 CC sequence is human adipocyte complement related protein homolog, zsig39
 CC protein. This protein was used in a sequence homology alignment with
 CC zacrp5 protein.

XX Sequence 243 AA;

SO Query Match 100.0%; Score 1325; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 5.3e-103; Indels 0; Gaps 0;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDAG 60

DB 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDAG 60

QY 61 APGEKGGGRPGLPGRGDPGRGEAGPAGPTGAGCSVPKSAFSAKSESRRVPPSD 120

DB 61 APGEKGGGRPGLPGRGDPGRGEAGPAGPTGAGCSVPKSAFSAKSESRRVPPSD 120

QY 121 APLEPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVAHATVYRASLQFDLVNKGESIASFFQ 180

DB 121 APLEPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVAHATVYRASLQFDLVNKGESIASFFQ 180

QY 181 FFGGMPKPAASLGGAMVRLPEPDQWVQGVGDYIGIYASIKTDSFSGFLVSDMHSSP 240

DB 181 FFGGMPKPAASLGGAMVRLPEPDQWVQGVGDYIGIYASIKTDSFSGFLVSDMHSSP 240

QY 241 VFA 243

DB 241 VFA 243

RESULT 11

AAB49599

ID AAB49599 standard; Protein; 243 AA.

AC AAB49599;

DT 13-MAR-2001 (first entry)

DE Human adipocyte complement related protein homolog zsig39.

KW Human; zacrp6; gene therapy; complement inhibition; C1q domain;

KW adipocyte complement related protein homolog;

KW inflammation; hormone secretion; inositol phosphate; arachidonate;

KW phospholipase C activation; gastric emptying; neutrophil activation;

KW superoxide anion production; antimicrobial; acute vascular injury;

KW wound healing; zsig39.

OS Homo sapiens.

PN M0200073446-A2.

PD 07-DEC-2000.

PF 22-MAY-2000; 2000MO-US14024.

PR 27-MAY-1999; 99US-0321262.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Sheppard PO;

DR WPI; 2001-061532/07.

PT Novel adipocyte complement related protein homolog, ZACRP6, useful as

PT modulators of neurotransmission and for treating disseminated

PT intravascular coagulation, arteriosclerosis and acute vascular injury

PS Disclosure; Fig 1; 119pp; English.

XX The present invention relates to human adipocyte complement related
 CC protein homolog, ZACRP6 protein and coding sequence (see AAB49596 and
 CC AAC90051). ZACRP6 has a carboxyl-terminal C1q domain. The zacrp6 gene is
 CC located on human chromosome 21q. zacrp6 gene and protein are useful for
 CC diagnosing and treating inflammations, for determining arterial
 CC remodeling, for modulating calcium ion concentration, hormone
 CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
 CC arachidonate release, phospholipase C activation, gastric emptying, human
 CC neutrophil activation or ADCC capability and superoxide anion production.
 CC zacrp6 gene and protein are also useful as antimicrobial applications,
 CC preferably against bacteria and virus, for complement inhibition, for
 CC treating acute vascular injury, disseminated intravascular coagulation,
 CC arteriosclerosis and for wound healing. The present sequence is human
 CC adipocyte complement related protein homolog zsig39. This protein was
 CC used in a sequence homology comparison with ZACRP6 protein.

XX Sequence 243 AA;

SO Query Match 100.0%; Score 1325; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 5.3e-103; Indels 0; Gaps 0;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDAG 60

DB 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTPGHHGSGQLPGRDGRDGDAG 60

QY 61 APGEKGGGRPGLPGRGDPGRGEAGPAGPTGAGCSVPKSAFSAKSESRRVPPSD 120

DB 61 APGEKGGGRPGLPGRGDPGRGEAGPAGPTGAGCSVPKSAFSAKSESRRVPPSD 120

QY 121 APLEPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVAHATVYRASLQFDLVNKGESIASFFQ 180

DB 121 APLEPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVAHATVYRASLQFDLVNKGESIASFFQ 180

QY 181 FFGGMPKPAASLGGAMVRLPEPDQWVQGVGDYIGIYASIKTDSFSGFLVSDMHSSP 240

Db 181 FFGMPKPSLSGGMVRLPEPDQVWVQVGVGDIYIGIYASIKTDSITSGFLVYSDWHSSP 240
 QY 241 VFA 243
 Db 241 VFA 243

RESULT 12

AAB65891
 ID AAB65891 standard; Protein; 243 AA.

AC AAB65891;
 XX

DT 28-MAR-2001 (first entry)
 XX

DE Human secreted protein related protein SEQ ID NO: 108.

KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KW INTERCEPT 258; coronary disorder; olfactory disorder;
 KM neurological disorder; pulmonary disorder; immunological disorder;
 KW developmental disorder; kidney disorder.

XX Homo sapiens.
 OS

PN WO200078808-A1.
 XX

PD 28-DEC-2000.
 XX

PF 19-JUN-2000; 2000WO-US16883.
 XX

PR 18-JUN-1999; 99US-0336536.
 XX

PA (MILL-) MILLENNIUM PHARM INC.
 XX

PI Leiby KR, McKay C, Bossone S;
 XX

DR WPI; 2001-050109/06.
 XX

PT New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma -

XX Disclosure; Page 274; 332pp; English.
 PS

CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 CC

XX Sequence 243 AA;
 SQ

Query Match 99.8%; Score 1323; DB 22; Length 243;
 Best Local Similarity 99.6%; Pred. No. 7.8e-103;
 Matches 242; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGGLPGRHHSOGLPGRDGRDGRGARG 60
 Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGGLPGRHHSOGLPGRDGRDGRGARG 60
 QY 61 APGEKGGGRPGLPGRGDPGRGEGAPGPTGPAEGCSVPFRSAFSAKRSRSRVPPSD 120
 Db 61 APGEKGGGRPGLPGRGDPGRGEGAPGPTGPAEGCSVPFRSAFSAKRSRSRVPPSD 120
 QY 121 APLPFDRLVNEQGHYDAVTKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFPQ 180
 Db 121 APLPFDRLVNEQGHYDAVTKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFPQ 180
 QY 181 FFGMPKPSLSGGMVRLPEPDQVWVQVGVGDIYIGIYASIKTDSITSGFLVYSDWHSSP 240
 Db 181 FFGMPKPSLSGGMVRLPEPDQVWVQVGVGDIYIGIYASIKTDSITSGFLVYSDWHSSP 240

QY 241 VFA 243
 Db 241 VFA 243

RESULT 13

AAB65888
 ID AAB65888 standard; Protein; 243 AA.

AC AAB65888;
 XX

DT 28-MAR-2001 (first entry)
 XX

DE Human secreted protein related protein SEQ ID NO: 102.

KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 KW INTERCEPT 258; coronary disorder; olfactory disorder;
 KM neurological disorder; pulmonary disorder; immunological disorder;
 KW developmental disorder; kidney disorder.

XX Homo sapiens.
 OS

PN WO200078808-A1.
 XX

PD 28-DEC-2000.
 XX

PF 19-JUN-2000; 2000WO-US16883.
 XX

PR 18-JUN-1999; 99US-0336536.
 XX

PA (MILL-) MILLENNIUM PHARM INC.
 XX

PI Leiby KR, McKay C, Bossone S;
 XX

DR WPI; 2001-050109/06.
 XX

PT New nucleic acids for treating diseases and disorders, e.g.
 PT atherosclerosis, infection, autoimmune diseases, obesity, ear
 PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
 PT sclerosis and asthma -

XX Disclosure; Page 270-271; 332pp; English.
 PS

CC The present invention provides the protein and coding sequences of the
 CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
 CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
 CC coronary, pulmonary, olfactory, immunological, neurological,
 CC developmental and kidney disorders.
 CC

XX Sequence 243 AA;
 SQ

Query Match 99.7%; Score 1321; DB 22; Length 243;
 Best Local Similarity 99.6%; Pred. No. 1.1e-102;
 Matches 242; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGGLPGRHHSOGLPGRDGRDGRGARG 60
 Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGGLPGRHHSOGLPGRDGRDGRGARG 60
 QY 61 APGEKGGGRPGLPGRGDPGRGEGAPGPTGPAEGCSVPFRSAFSAKRSRSRVPPSD 120
 Db 61 APGEKGGGRPGLPGRGDPGRGEGAPGPTGPAEGCSVPFRSAFSAKRSRSRVPPSD 120
 QY 121 APLPFDRLVNEQGHYDAVTKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFPQ 180
 Db 121 APLPFDRLVNEQGHYDAVTKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFPQ 180
 QY 181 FFGMPKPSLSGGMVRLPEPDQVWVQVGVGDIYIGIYASIKTDSITSGFLVYSDWHSSP 240
 Db 181 FFGMPKPSLSGGMVRLPEPDQVWVQVGVGDIYIGIYASIKTDSITSGFLVYSDWHSSP 240
 QY 241 VFA 243

Db . 241 VFA 243

RESULT 14
AAB65889
ID AAB65889 standard; Protein; 243 AA
vv

DT 28-MAR-2001 (first entry)
 YY

DE	Human secreted protein related	SEQ ID NO: 104
XX		

KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KM INTERCEPT 258; coronary disorder; olfactory disorder;
KM neurological disorder; pulmonary disorder; immunological disorder
developmental disorder; kidney disorder.
KY

OS Homo sapiens
yy

PN WO200078808-A1.
XX

PD 28-DEC-2000.
XX

PF 19-JUN-2000; 2000WO-US16883.
XY

PR. 18-JUN-1999; 99US-0336536.
XX

PA (MILL-) MILLENNIUM PHARM INC.
XX '

PI Leiby KR, McKay C, Bossone S;
XX

DR WPI; 2001-050109/06.

PT New nucleic acids for treating diseases and disorders, e.g.
PT atherosclerosis, infection, autoimmune diseases, obesity, ear
PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
PT sclerosis and asthma -

PS Disclosure; Page 271-272; 332pp; English.

The present invention provides the protein and coding sequences of the human and murine secreted or transmembrane proteins TANGO 253, TANGO 257, TANGO 281 and INTERCEPT 258. These are useful in the treatment of coronary, pulmonary, olfactory, immunological, neurological, developmental and kidney disorders.

SQ Sequence 243 AA;

Query Match	99.7%	Score 1321;	DB 22;	Length 243;
Best Local Similarity	99.6%	Pred. No. 1.1e-102;		
Matches 242; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

QY	1	MRPLVLLVLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTTHHSSQSLPPRDDRDGDAG	60
Db	1	MRPLVLLVLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTTHHSSQSLPPRDDRDGDAG	60
QY	61	APGKSGKGRPGLRGSRGDPGRGGA GPATGPA GECSPRPSA FSKAKESSEVPSPD	120
Db	61	APGKSGKGRPGLRGSRGDPGRGGA GPATGPA GECSPRPSA FSKAKESSEVPSPD	120
QY	121	APLPFRVLYVNRGCHDAYTGKFTQCPQCVVYFAVHAIVYTAASLDFLYKNGESIASFPQ	180
Db	121	APLPFRVLYVNRGCHDAYTGKFTQCPQCVVYFAVHAIVYTAASLDFLYKNGESIASFPQ	180
QY	181	FFGGMGKPAASLSGGAIVRLPEPDQVAVGVGDYIGIYASIKTDSFSGFLVYSDMHSP	240
Db	181	FFGGMGKPAASLSGGAIVRLPEPDQVAVGVGDYIGIYASIKTDSFSGFLVYSDMHSP	240
QY	241	VFA	243
Db	241	VFA	243

```

RESULT 15
AAB65890
ID      AAB65890 standard; Protein; 243 AA
XY

```

DT 28-MAR-2001 (first entry)
 VY

DE Human secreted protein related protein SEQ ID NO: 106.
XX

Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281; INTERCEPT 258; coronary disorder; olfactory disorder; neurological disorder; pulmonary disorder; immunological disorder developmental disorder; kidney disorder.

OS Homo sapiens.
XY

PN WO200078808-A1
XY

PD 28-DEC-2000 .
YY

PF 19-JUN-2000; 2000WO-US16883.
XX

PR 18-JUN-1999; 99US-0336536.
XX

PA (MILL-) MILLENNIUM PHARM INC.
XX
XX

PI Leiby KR, McKay C, Bossone S;
XX

DR WPI; 2001-050109/06.

PT New nucleic acids for treating diseases and disorders, e.g. PT atherosclerosis, infection, autoimmune diseases, obesity, ear PT disorders, brain disorders, tumors, diabetes, arthritis, multiple sclerosis and asthma -

PS Disclosure; Page 272-273; 332pp; English.

CC developmental and kidney disorders.
CC coronary, pulmonary, olfactory, immunological, neurological,
CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
CC The present invention provides the protein and coding sequences of the
CC CC

SQ **Sequence** **243 AA;**

Query Match	99.7%	Score 1321	DB 22	Length 243
Best Local Similarity	99.6%	Pred. No. 1.1e-102		
Matches 242; Conservative	0	Mismatches 1	Indels 0	Gaps 0

QY	1	MBPLVILLLGLAAGSPPLDINKI	PSLCRGHPGL	PGTHGNHSGCL	ACGRCRCRDAC	PG	60
Db	1	MBPLVILLLGLAAGSPPLDINKI <td>PSLCRGHPGL <td>PGTHGNHSGCL <td>ACGRCRCRDAC <td>PG <td>60</td> </td></td></td></td>	PSLCRGHPGL <td>PGTHGNHSGCL <td>ACGRCRCRDAC <td>PG <td>60</td> </td></td></td>	PGTHGNHSGCL <td>ACGRCRCRDAC <td>PG <td>60</td> </td></td>	ACGRCRCRDAC <td>PG <td>60</td> </td>	PG <td>60</td>	60
QY	61	APGCKEGGGRPGLP	PGPRD	PGPRG	BAGPAGT	GPAGCSVP	PRGAFSAKRSBSKRVPPSD
Db	61	APGCKEGGGRPGLP	PGPRD	PGPRG	BAGPAGT	GPAGCSVP	PRGAFSAKRSBSKRVPPSD
QY	121	APLP	PPRVLYMNGGHYDAVTGK	FTCVQVGGVYVFAVNA	TVYRASLQ	QFPLVNNSSIASFFQ	180
Db	121	APLP	PPRVLYMNGGHYDAVTGK	FTCVQVGGVYVFAVNA	TVYRASLQ	QFPLVNNSSIASFFQ	180
QY	181	FFGGMFKPASLSGGMVRL	BEPDDQVMVQVGVGDYIGIYASIK	TDSTSGFLVYSDMHS	SP	240	
Db	181	FFGGMFKPASLSGGMVRL	BEPDDQVMVQVGVGDYIGIYASIK	TDSTSGFLVYSDMHS	SP	240	
QY	241	VFA	243				
Db	241	VFA	243				

Sat Jun 21 17:32:37 2003

us-09-944-403-42.rag

Page 11

Search completed: June 20, 2003, 11:23:01
job time : 63 secs

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OM protein - protein search, using sw model

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62.161 Million cell updates/sec

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1325	100.0	243	US-09-944-413-42	Sequence 42, App1
2	1325	100.0	243	US-09-944-403-42	Sequence 42, App1
3	1325	100.0	243	US-09-944-896-42	Sequence 42, App1
4	1325	100.0	243	US-09-944-944-42	Sequence 42, App1
5	1325	100.0	243	US-09-944-907-42	Sequence 42, App1
6	1325	100.0	243	US-09-944-929-42	Sequence 42, App1
7	1325	100.0	243	US-10-028-072-362	Sequence 362, App
8	1325	100.0	243	US-10-121-049-362	Sequence 362, App
9	1325	100.0	243	US-10-123-904-362	Sequence 362, App
10	1325	100.0	243	US-10-140-470-362	Sequence 362, App
11	1325	100.0	243	US-09-796-753-68	Sequence 68, App1
12	1325	100.0	243	US-10-175-746-362	Sequence 362, App
13	1325	100.0	243	US-10-176-918-362	Sequence 362, App
14	1325	100.0	243	US-10-176-921-362	Sequence 362, App
15	1325	100.0	243	US-10-137-865-362	Sequence 362, App
16	1325	100.0	243	US-10-140-474-362	Sequence 362, App
17	1325	100.0	243	US-10-142-431-362	Sequence 362, App
18	1325	100.0	243	US-10-143-114-362	Sequence 362, App
19	1325	100.0	243	US-10-140-002-362	Sequence 362, App

20	1325	100.0	243	US-10-142-419-362	Sequence 362, App
21	1325	100.0	243	US-10-123-262-362	Sequence 362, App
22	1325	100.0	243	US-10-142-423-362	Sequence 362, App
23	1325	100.0	243	US-10-121-050-362	Sequence 362, App
24	1325	100.0	243	US-10-141-755-362	Sequence 362, App
25	1325	100.0	243	US-10-143-032-362	Sequence 362, App
26	1325	100.0	243	US-10-123-108-362	Sequence 362, App
27	1325	100.0	243	US-10-123-236-362	Sequence 362, App
28	1325	100.0	243	US-10-123-261-362	Sequence 362, App
29	1325	100.0	243	US-10-140-821-362	Sequence 362, App
30	1325	100.0	243	US-10-140-928-362	Sequence 362, App
31	1325	100.0	243	US-10-121-045-362	Sequence 362, App
32	1325	100.0	243	US-10-123-292-362	Sequence 362, App
33	1325	100.0	243	US-10-123-903-362	Sequence 362, App
34	1325	100.0	243	US-10-124-819-362	Sequence 362, App
35	1325	100.0	243	US-10-124-822-362	Sequence 362, App
36	1325	100.0	243	US-10-140-925-362	Sequence 362, App
37	1325	100.0	243	US-10-160-498-362	Sequence 362, App
38	1325	100.0	243	US-09-944-884-42	Sequence 42, App1
39	1325	100.0	243	US-10-121-041-362	Sequence 362, App
40	1325	100.0	243	US-10-121-043-362	Sequence 362, App
41	1325	100.0	243	US-10-121-047-362	Sequence 362, App
42	1325	100.0	243	US-10-123-215-362	Sequence 362, App
43	1325	100.0	243	US-10-123-902-362	Sequence 362, App
44	1325	100.0	243	US-10-123-908-362	Sequence 362, App
45	1325	100.0	243	US-10-123-909-362	Sequence 362, App

ALIGNMENTS

RESULT 1
US-09-944-413-42
Sequence 42, Application US/09944413
Patent NO. US20020156004A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 413
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/063335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-413-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 MRPLVLLTGLAAGSPPLDNNKIPSLCPHGLPTGPHHGSGLPGRDGRDCAAG 60
|||||

Db 1 MRPLVLLTGLAAGSPPLDNNKIPSLCPHGLPTGPHHGSGLPGRDGRDCAAG 60
QY 61 APGEKGEGRRPGLPGRPDGPGRBAGPAGTGPAGRCVPPRPAFAKSSRSRVPSPD 120
Db 61 APGEKGEGRRPGLPGRPDGPGRBAGPAGTGPAGRCVPPRPAFAKSSRSRVPSPD 120
QY 121 APLEPDRVLVNEQGHYAVNGKFTCOVPGVYFPAVHA TVYRASIQPLVYNGESIASFPQ 180
Db 121 APLEPDRVLVNEQGHYAVNGKFTCOVPGVYFPAVHA TVYRASIQPLVYNGESIASFPQ 180
QY 181 FFGMPKPRASISGAMVRLBEPDQVWVGVDYIGIYASIKTDSFGFLVYSDMHS 240
Db 181 FFGMPKPRASISGAMVRLBEPDQVWVGVDYIGIYASIKTDSFGFLVYSDMHS 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 2
US-09-944-403-42
Sequence 42, Application US/09944403
Patent No. US20020165143A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gottfredsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OR INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: F2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,403
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1eember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1eember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08449
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-403-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLGTPGHHGSOGLPGRDGRDGDGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLGTPGHHGSOGLPGRDGRDGDGAPG 60
QY 61 APGEKGEGRGRLPGRDGRGAGAGAGPTGPAEGESVPPRPAFAKRSERVPSPD 120
DB 61 APGEKGEGRGRLPGRDGRGAGAGAGPTGPAEGESVPPRPAFAKRSERVPSPD 120
QY 121 APLPDRVLVNEOGHYDAVTKGFTQGVGVVYFAVHATVYASLQFDLVKNGESTASFFQ 180
DB 121 APLPDRVLVNEOGHYDAVTKGFTQGVGVVYFAVHATVYASLQFDLVKNGESTASFFQ 180
QY 181 FFGWPKPASLSCGAMVRLPEPDQVWVGVDYIGIYASIKTDSFSGFLVYSDMHSSP 240
DB 181 FFGWPKPASLSCGAMVRLPEPDQVWVGVDYIGIYASIKTDSFSGFLVYSDMHSSP 240

DB 181 FFGWPKPASLSCGAMVRLPEPDQVWVGVDYIGIYASIKTDSFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 3
US-09-944-896-42
Sequence 42, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gunney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tuma, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 896
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069, 873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068, 017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070, 440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074, 086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074, 092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075, 945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112, 850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113, 296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146, 222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998

PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-896-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLGLAAGSPPLDDNKIPSLCPGHPGLPPTPGHSGQGLPGRDGRDGRDAG 60
DB 1 MRPLVLLGLGLAAGSPPLDDNKIPSLCPGHPGLPPTPGHSGQGLPGRDGRDGRDAG 60
QY 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTSGPAGECSVPSPSAFSARSRVPPSD 120
DB 61 APGEKGGGRPGLPGRGDPGPRGEGAPGPTSGPAGECSVPSPSAFSARSRVPPSD 120
QY 121 APLPFRVAVNEGHDAVTKFTCOVPGVYFAVAHVYRAVLQFDLVNKGESISFPQ 180
DB 121 APLPFRVAVNEGHDAVTKFTCOVPGVYFAVAHVYRAVLQFDLVNKGESISFPQ 180
QY 181 FPGGMPKPSASISGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSFSGFLVYSDMHSSP 240
DB 181 FPGGMPKPSASISGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 4
US-09-944-944-42
Sequence 42, Application US/09944944
Patent No. US20020173463A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David

APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gueney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavini, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Thomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,944
PRIOR APPLICATION NUMBER: 2001-09-26
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,686
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020173463A1ember 30, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-944-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKTPSLCPGHPGLPCTPGHHGSOGLPGRDGRDGDGARG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKTPSLCPGHPGLPCTPGHHGSOGLPGRDGRDGDGARG 60
QY 61 APGEKGEGRGRLPGPRDPPGRGAGPAGPTGPGAGCSVPPRSASFSAKRSRVPSPSD 120
DB 61 APGEKGEGRGRLPGPRDPPGRGAGPAGPTGPGAGCSVPPRSASFSAKRSRVPSPSD 120
QY 121 APLPRDRLVNEQGHYDAVTGKFTCVPGVYFAVHATVYRASLOFDLVKNGESTIASFFQ 180
DB 121 APLPRDRLVNEQGHYDAVTGKFTCVPGVYFAVHATVYRASLOFDLVKNGESTIASFFQ 180
QY 181 FFGGMPKPRASISGGAMVLEBEDQWVGVGDYIGIYASIKTSTFSGFLVYSWMHSP 240
DB 181 FFGGMPKPRASISGGAMVLEBEDQWVGVGDYIGIYASIKTSTFSGFLVYSWMHSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 5

US-09-944-907-42
Sequence 42, Application US/09944907
Publication No. US20020198147A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 907
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-907-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKTPSLCPGHPGLPCTPGHHGSOGLPGRDGRDGDGARG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKTPSLCPGHPGLPCTPGHHGSOGLPGRDGRDGDGARG 60
QY 61 APGEKGEGRGRLPGPRDPPGRGAGPAGPTGPGAGCSVPPRSASFSAKRSRVPSPSD 120
DB 61 APGEKGEGRGRLPGPRDPPGRGAGPAGPTGPGAGCSVPPRSASFSAKRSRVPSPSD 120
QY 121 APLPRDRLVNEQGHYDAVTGKFTCVPGVYFAVHATVYRASLOFDLVKNGESTIASFFQ 180
DB 121 APLPRDRLVNEQGHYDAVTGKFTCVPGVYFAVHATVYRASLOFDLVKNGESTIASFFQ 180
QY 181 FFGGMPKPRASISGGAMVLEBEDQWVGVGDYIGIYASIKTSTFSGFLVYSWMHSP 240
DB 181 FFGGMPKPRASISGGAMVLEBEDQWVGVGDYIGIYASIKTSTFSGFLVYSWMHSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 6

US-09-944-929-42
Sequence 42, Application US/09944929
Publication No. US20020197612A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 929
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT

ORGANISM: Homo Sapien
US-09-944-929-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,36-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGFLGTGHHGSGQLPRDGDGDGAGP 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHGFLGTGHHGSGQLPRDGDGDGAGP 60
QY 61 APGEKGGRRPGLPGRGDPGRGAGPAGPGRGAGSVPGRSAFSAKRSRRVPPSD 120
DB 61 APGEKGGRRPGLPGRGDPGRGAGPAGPGRGAGSVPGRSAFSAKRSRRVPPSD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYFAVHATVYRASLQFDLVKNGESIASFPQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTQVPGVYFAVHATVYRASLQFDLVKNGESIASFPQ 180
QY 181 FFGGMPKPRASISGGAMVRLPEPDQYVQVGVGYGIYASITKTSITPSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASISGGAMVRLPEPDQYVQVGVGYGIYASITKTSITPSGFLVYSMDHSSP 240
QY 241 VPA 243
DB 241 VPA 243

RESULT 7
US-10-028-072-362
Sequence 362, Application US/10028072
Publication No. US2003000431A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OF INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028,072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588

PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059836
PRIOR FILING DATE: 1997-09-24
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062814
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063045
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063561
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063704
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063735
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063738
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063755
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064248
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064809
PRIOR FILING DATE: 1997-11-07
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065846
PRIOR FILING DATE: 1997-11-17
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066453
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066511
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072220
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086414
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086430
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088730
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088741
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445

PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090538
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDDNKIPSLCRGHPGLPCTPGHSGQLPGRDGRDCAAG 60
DB 1 MRPLVLLILGLAAGSPPLDDNKIPSLCRGHPGLPCTPGHSGQLPGRDGRDCAAG 60
QY 61 APEKKGGRPGLPGRGDPGRGEPGAPGPTGPAGCSVPSPSAFSKRSBSRVPPSPD 120
DB 61 APEKKGGRPGLPGRGDPGRGEPGAPGPTGPAGCSVPSPSAFSKRSBSRVPPSPD 120
QY 121 APLEPDRVLVNEQGHDAVTGKFTCOVGVYFAVATVYRASLOFDLVNCGSISAFQ 180
DB 121 APLEPDRVLVNEQGHDAVTGKFTCOVGVYFAVATVYRASLOFDLVNCGSISAFQ 180
QY 181 FFGWPKPASPISGAVNRLEPEDVWVQGVGYIGIYASIKTDSFGFLVYSWHSPP 240
DB 181 FFGWPKPASPISGAVNRLEPEDVWVQGVGYIGIYASIKTDSFGFLVYSWHSPP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 8

US-10-121-049-362
Sequence 362, Application US/10121049
Publication No. US2003002239A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330RIC17
CURRENT APPLICATION NUMBER: US/10/121,049
CURRENT FILING DATE: 2002-04-12
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-121-049-362

Query Match 100.0%; Score 1325; DB 9; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.3e-89; Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 QY 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 DB 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 QY 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180
 DB 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180
 QY 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240
 DB 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 9

US-10-123-904-362
 ; Sequence 362, Application US/10123904
 ; Publication No. US20030022328A1

GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeForge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3330R1C54
 CURRENT APPLICATION NUMBER: US/10/123,904
 PRIORITY FILING DATE: 2002-04-16
 Prior Application removed - See File Wrapper or Palm
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 362
 LENGTH: 243
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-123-904-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
 Best Local Similarity 100.0%; Pred. No. 2.3e-89; Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 QY 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 DB 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 QY 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180
 DB 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180

DB 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180

QY 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240
 DB 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240

QY 241 VFA 243
 DB 241 VFA 243

RESULT 10

US-10-140-470-362
 ; Sequence 362, Application US/10140470
 ; Publication No. US20030022331A1

GENERAL INFORMATION:
 APPLICANT: Baker, Kevin P.
 APPLICANT: Beresini, Maureen
 APPLICANT: DeForge, Laura
 APPLICANT: Desnoyers, Luc
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Gurney, Austin L.
 APPLICANT: Sherwood, Steven
 APPLICANT: Smith, Victoria
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K
 APPLICANT: Wood, William
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3330R1C160
 CURRENT APPLICATION NUMBER: US/10/140,470
 PRIORITY FILING DATE: 2002-05-06
 Prior Application removed - See File Wrapper
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 362
 LENGTH: 243
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-140-470-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
 Best Local Similarity 100.0%; Pred. No. 2.3e-89; Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPGLPCTGHHGSGGLPGRDGRDGDGAPG 60
 QY 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 DB 61 APGEKEGGRPGLPGRGDPGRGEGAGPPTGPAECSCVPPRSASFSAKRSRVPSPSD 120
 QY 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180
 DB 121 APLEPFRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYVRASLOPDLVKNGESIASFFQ 180
 QY 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240
 DB 181 FFGWMPKPSLSGAMVRLPEPDQVWVQVGVGDYIGIYASIKTDSIFSGFLVYSMDHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 11

US-09-796-753-68

```

; Sequence 68, Application US/09796753
; Publication No. US20030027998A1
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-227-999
; CURRENT APPLICATION NUMBER: US/09/796,753
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 09/183,175
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 09/223,094
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/223,546
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/224,246
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/259,388
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/122,458
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 09/312,359
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/336,536
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 09/342,687
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 09/345,464
; PRIOR FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: 09/365,164
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/399,723
; PRIOR FILING DATE: 1999-09-20
; PRIOR APPLICATION NUMBER: 09/409,634
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 09/471,179
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 09/474,071
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/474,072
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/514,010
; PRIOR FILING DATE: 2000-02-25
; PRIOR APPLICATION NUMBER: 09/516,745
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/572,002
; PRIOR FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: 09/597,993
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 09/599,596
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: 09/630,334
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 09/606,565
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/606,317
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/665,666
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: 09/677,751
; PRIOR FILING DATE: 2000-09-30
; NUMBER OF SEQ ID NOS: 162
; SEQ ID NO 68
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-796-753-68

```

```

Query Match      100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

; Sequence 362, Application US/10175746
; Publication No. US20030027270A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C353
; CURRENT APPLICATION NUMBER: US/10/175,746
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: 09/572,002
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-746-362

```

```

Query Match      100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 241 VFA 243
|||
Db 241 VFA 243

RESULT 13

US-10-176-918-362
; Sequence 362, Application US/10176918
; Publication No. US20030027275A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C382
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-918-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPGTPGHHGSGQLPGRDGRDGDAPG 60
|||
Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPGTPGHHGSGQLPGRDGRDGDAPG 60
OY 61 APGEKGGRRPGLPGPRGDPGRGAGPAGPTGPAECSSVPPRSAFSAKSESSESVPPSPD 120
|||
Db 61 APGEKGGRRPGLPGPRGDPGRGAGPAGPTGPAECSSVPPRSAFSAKSESSESVPPSPD 120
OY 121 APLPFDRLVNBQGHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFPQ 180
|||
Db 121 APLPFDRLVNBQGHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFPQ 180
OY 181 FFGMPRPASISGAMVRLBEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
|||
Db 181 FFGMPRPASISGAMVRLBEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
OY 241 VFA 243
|||
Db 241 VFA 243

RESULT 14

US-10-176-921-362
; Sequence 362, Application US/10176921
; Publication No. US20030027276A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen

; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C288
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-921-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPGTPGHHGSGQLPGRDGRDGDAPG 60
|||
Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPGTPGHHGSGQLPGRDGRDGDAPG 60
OY 61 APGEKGGRRPGLPGPRGDPGRGAGPAGPTGPAECSSVPPRSAFSAKSESSESVPPSPD 120
|||
Db 61 APGEKGGRRPGLPGPRGDPGRGAGPAGPTGPAECSSVPPRSAFSAKSESSESVPPSPD 120
OY 121 APLPFDRLVNBQGHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFPQ 180
|||
Db 121 APLPFDRLVNBQGHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFPQ 180
OY 181 FFGMPRPASISGAMVRLBEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
|||
Db 181 FFGMPRPASISGAMVRLBEPDQVWQVGVGYIGIYASIKTSTSGFLVYSDMHSSP 240
OY 241 VFA 243
|||
Db 241 VFA 243

RESULT 15

US-10-137-865-362
; Sequence 362, Application US/10137865
; Publication No. US20030032155A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
ACIDS ENCODING THE SAME
FILE REFERENCE: P330R1C154
CURRENT APPLICATION NUMBER: US/10/137,865
CURRENT FILING DATE: 2002-05-03
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-865-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPIGTRGHHSQGLPGRDGRDGDGAPG 60
DB 1 MRPLVLLILGLAAGSPPLDNDKIPSLCPGHPIGTRGHHSQGLPGRDGRDGDGAPG 60
QY 61 APGEKGGGRPGLPGRGDPGRGAGAPGPTGAGGCSVPPRSAPFSAKRSERVPSPD 120
DB 61 APGEKGGGRPGLPGRGDPGRGAGAPGPTGAGGCSVPPRSAPFSAKRSERVPSPD 120
QY 121 APLPFDRLVNEQGHDAVTGKPTQGVSVYPAVHATVYRASLQFDLVNNGESIASFFQ 180
DB 121 APLPFDRLVNEQGHDAVTGKPTQGVSVYPAVHATVYRASLQFDLVNNGESIASFFQ 180
QY 181 FFGWMPKASLSCGAMRLSPEDQWVQGVGDYIGIYASIKTDSSTSGFLVYSDWHSSP 240
DB 181 FFGWMPKASLSCGAMRLSPEDQWVQGVGDYIGIYASIKTDSSTSGFLVYSDWHSSP 240
QY 241 VFA 243
DB 241 VFA 243

Search completed: June 20, 2003, 11:39:57
Job time : 424 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 20, 2003, 11:18:01 ; Search time 44 Seconds

(without alignments)
530.924 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 1325

Sequence: 1 NRPPLVLLILGLAAGSPPLD.....DSTFGFLVYSDMHSVPFA 243

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

PIR 73:*
1: pirl:*
2: pirl:*
3: pirl:*
4: pirl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1207	91.1	219	2 T14782	hypothetical prote
2	424	32.0	244	2 JC4708	gelatin-binding 28
3	418.5	31.6	680	1 CGH01D	collagen alpha 1(X
4	416.5	31.4	674	2 S23297	collagen alpha 1(X
5	412	31.1	246	2 S29328	complement subcomp
6	411.5	31.1	674	2 S13301	collagen alpha 1(X
7	408	30.8	680	2 S31216	collagen alpha 1(X
8	399	30.1	245	1 C1H00C	complement subcomp
9	374	28.2	744	1 A34246	collagen alpha 1(V
10	370	27.9	744	1 S23298	collagen alpha 1(V
11	363.5	27.4	743	1 S23779	collagen alpha 1(V
12	363	27.4	635	1 A57131	collagen alpha 2(V
13	362	27.3	253	1 C1H00B	complement subcomp
14	360.5	27.2	253	2 S49158	complement protein
15	359	27.1	744	2 S15435	collagen alpha 1(V
16	351	26.5	253	2 A55797	complement C1q B c
17	316	23.8	423	2 A55797	collagen precursor
18	314	23.7	245	1 C1H00A	complement subcomp
19	314	23.7	245	2 S19018	complement subcomp
20	280.5	21.2	215	2 B48150	hibernation-relate
21	277.5	20.9	215	2 C48150	hibernation-relate
22	261.5	19.7	196	2 A48150	hibernation-relate
23	238.5	18.0	992	2 T08772	hypothetical prote
24	230.5	17.4	1049	1 CGB07S	collagen alpha 1(I
25	227.5	17.2	248	2 T51921	pulmonary surfacta
26	225.5	17.0	248	1 LNH01I	pulmonary surfacta
27	225	17.0	325	1 T32248	hypothetical prote
28	224	16.9	636	2 S41067	collagen alpha 1(I
29	223	16.8	1464	2 S59856	collagen alpha 1(I

30	222.5	16.8	1758	2 T29350	hypothetical prote
31	222.5	16.8	1759	2 T29351	collagen alpha 2(I
32	222	16.8	360	2 T37285	collagen dpy-2 - C
33	221.5	16.7	170	2 B57131	collagen alpha 2(V
34	221	16.7	886	2 T50694	collagen alpha 1(I
35	221	16.7	1019	1 A32856	collagen alpha 1(V
36	220	16.6	248	1 LND0FS	pulmonary surfacta
37	220	16.6	341	2 T16296	hypothetical prote
38	220	16.6	380	2 T28888	cuticle collagen d
39	219.5	16.6	247	1 LNRBPS	pulmonary surfacta
40	219.5	16.6	381	2 T27806	hypothetical prote
41	219.5	16.6	673	1 CGB06C	collagen alpha 1(I
42	219.5	16.6	1466	1 CGH07L	collagen alpha 1(I
43	219	16.5	671	1 CGRT1S	collagen alpha 1(I
44	218.5	16.5	1453	2 S21626	collagen alpha 1(I
45	217	16.4	283	2 T29980	hypothetical prote

ALIGNMENTS

RESULT 1

T14782
hypothetical protein DKFZp586B0621.1 - human (fragment)

C/Species: Homo sapiens (man)

C/Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 02-Sep-2000

C/Accession: T14782

R.Ottewill, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.

submitted to the Protein Sequence Database, August 1999

A/Reference number: Z18184

A/Accession: T14782

A/Status: preliminary

A/Molecule type: mRNA

A/Residues: 1-219 <OT>

A/Cross-references: EMBL:AL110261

A/Experimental source: adult uterus; clone DKFZp586B0621

C/Genetics:

A/Note: DKFZp586B0621.1

C/Superfamily: complement C1q carboxyl-terminal homology

Query Match	Score 1207; DB 2; Length 219;
Best Local Similarity	100.0%; Pred. No. 1.3e-77;
Matches 219; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	25 PSICPGHPLPGTGHHSQGLPGRDGRDGPAGAPGKSGRGLPGRGDGPFG 84
DB	1 PSICPGHPLPGTGHHSQGLPGRDGRDGPAGAPGKSGRGLPGRGDGPFG 60
QY	85 EAGPAGPTGAGGCVPPPSAFSAKRSERVPSPDAPLPFDRLVNEGSHDVAVGT 144
DB	61 EAGPAGPTGAGGCVPPPSAFSAKRSERVPSPDAPLPFDRLVNEGSHDVAVGT 120
QY	145 CQVPGYTPAVNATVTRASLOPDLVNGSISLFPFGWMPKPSLGGAMVRLPE 204
DB	121 CQVPGYTPAVNATVTRASLOPDLVNGSISLFPFGWMPKPSLGGAMVRLPE 180
QY	205 VWVGVGVGYIGIYASIKTDSFGFLVYSDMHSVPFA 243
DB	181 VWVGVGVGYIGIYASIKTDSFGFLVYSDMHSVPFA 219

RESULT 2

JC4708
gelatin-binding 28K protein precursor - human

N/Alternate names: adipose specific collagen-like factor

C/Species: Homo sapiens (man)

C/Date: 10-May-1996 #sequence_revision 19-Jul-1996 #text_change 20-Sep-1999

C/Accession: JC4708; JC4944

R/Maeda, K.; Okubo, K.; Shimomura, I.; Funahashi, T.; Matsuzawa, Y.; Matsubara, K.

Biochem. Biophys. Res. Commun. 221, 286-289, 1996

A/Title: cDNA cloning and expression of a novel adipose specific collagen-like factor

A/Reference number: JC4708; MUID:96224171; PMID:8619847

A/Accession: JC4708

A: Molecule type: mRNA
 A: Residues: 1-244 <MAE>
 A: Cross-references: DDBJ:D45371; NID:9871886; PIDN:BA08227.1; PID:9871887
 A: Experimental source: adipose tissue
 R: Nakano, Y.; Tobe, T.; Choji-Mura, N.H.; Mazda, T.; Tomita, M.
 J. Biochem. 120, 803-812, 1996
 A: Title: Isolation and characterization of GBP28, a novel gelatin-binding protein purified from sheep placenta
 A: Reference number: J04944; MUID:97103474; PMID:8947845
 A: Accession: J04944
 A: Molecule type: protein
 A: Residues: 19-38; 93-100; 101-112; 135-149; 173-178 <NMX>
 A: Comment: This protein is an endogenous factor that binds with a collagen-like domain.
 C: Genetics:
 A: Gene: apnl
 C: Superfamily: unassigned collagens; complement C1q carboxyl-terminal homology
 C: Keywords: adipose tissue; glycoprotein; hydroxyproline
 F: 1-18/Domain: signal sequence #status predicted <SIG>
 F: 19-244/Product: gelatin-binding 28kDa protein #status experimental <MAT>
 F: 42-107/Region: collagen-like
 F: 114-241/Domain: complement C1q carboxyl-terminal homology <C1Q>
 F: 95/Modified site: 4-hydroxyproline (Pro) #status experimental
 F: 230/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 32.0%; Score 424; DB 2; Length 244;
 Best Local Similarity 40.5%; Pred. No. 7.7e-23;
 Matches 106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;

OY 6 VLLLLGLAGSPPLDNNKIPSLCPGH-----PG-----LPSTPHHNSQ 44
 DB 7 VLLLLAL-----FQHDDETTQSGVLLPLPKGACITGMAGIRGHGN 50

OY 45 GLPGRDGDGDGAPGAPGEGKGRPGLPGRPD-----PGRPRGAPGAPGPA 95
 DB 51 GAPGRDGD-----GTPGEGKGDGDPGLIGPKGDIGETGVPGAPGPRPGIQRKGRP 104

OY 96 GECVPPRSAPSAKRSERVRPPSDAPLPDRVLNBECHDAVATGKTCQVPGVYFAY 155
 DB 105 GEGAVVYSAPSV-GLETVYVIP-NMPLRFKIFPNQNNHTDGSFGKHCNIPGLYTFAY 162

OY 156 HATVRAALQPDVLVNGERS-IASFPFGGMPKPSASGAMVRLPEPDQVVOV-GVGD 213
 DB 163 HITVYMKOVKSLPFXKDKAMLFYDQYQENNVDA--SGSVLLHLEVDDQWLVGYGGE 220

OY 214 YIGIYASIKTGSTSGFLVYSD 235
 DB 221 RRGIVADNDNDSTFGFLYHD 242

RESULT 3
 CGHUID
 collagen alpha 1(X) chain precursor - human
 N: Alternate names: procollagen alpha 1(X) chain
 C: Species: Homo sapiens (man)
 C: Date: 22-Nov-1993 #sequence revision 03-Nov-1995 #text change 22-Jun-1999
 R: Accession: S26396; S30086; S158249; A43901; I51870; S21556
 R: Reichenberger, B.; Beier, F.; Lwaile, P.; Olsen, B.R.; von der Mark, K.; Bertling, W.
 FEBS Lett. 311, 305-310, 1992
 A: Title: Genomic organization and full-length cDNA sequence of human collagen X.
 A: Reference number: S26396; MUID:93012005; PMID:1397333
 A: Accession: S26396
 A: Molecule type: DNA
 A: Residues: 1-680 <REI>
 A: Cross-references: EMBL:X68952; EMBL:X72578; EMBL:X72579; EMBL:X72580; GB:S47714; GB:S47715; S.
 submitted to the EMBL Data Library, March 1992
 A: Reference number: S30085
 A: Accession: S30085
 A: Molecule type: DNA
 A: Residues: TTTFTGVCVCLL, 52-680 <AP>
 A: Cross-references: EMBL:X65120; NID:923129
 A: Note: The initial difference is probably due to translation of an intronic sequence
 R: Apte, S.; Mattei, M.G.; Olsen, B.R.
 FEBS Lett. 282, 393-396, 1991

A: Title: Cloning of human alpha-1(X) collagen DNA and localization of the COL10A1 gene
 A: Reference number: S15826; MUID:91243838; PMID:2037056
 A: Accession: S15826
 A: Molecule type: DNA
 A: Residues: 561-647, 'G', 649-666 <AP2>
 A: Cross-references: EMBL:X58879; NID:930013; PIDN:CAA4186.1; PID:930014
 R: Thomas, J.T.; Cresswell, C.J.; Raab, B.; Nicolai, H.; Jones, T.; Solomon, E.; Grant
 Biochem. J. 280, 617-623, 1991
 A: Title: The human collagen X gene. Complete primary translated sequence and chromosomal location
 A: Reference number: S18249; MUID:92109659; PMID:1764025
 A: Accession: S18249
 A: Molecule type: DNA
 A: Residues: 1-26, 'T', 28-680 <THO>
 A: Cross-references: EMBL:X60382; NID:930094; PIDN:CAA4293.1; PID:930095
 A: Note: The sequence from Fig. 3 is inconsistent with that from Fig. 2 in having 532-
 R: Reichenberger, B.; Aigner, T.; von der Mark, K.; Stoss, H.; Bertling, W.
 Dev. Biol. 148, 562-572, 1991
 A: Title: In situ hybridization studies on the expression of type X collagen in fetal
 A: Reference number: A43901; MUID:92077285; PMID:1743401
 A: Accession: A43901
 A: Molecule type: mRNA
 A: Residues: 547-656 <RE2>
 A: Cross-references: GB:M74050; GB:D57494; NID:9339884; PIDN:AAA61221.1; PID:9553796
 A: Note: sequence extracted from NCBI backbone (NCBI:69012, NCBI:69014)
 R: Wallis, G.A.; Raab, B.; Sweetman, W.A.; Thomas, J.T.; Super, M.; Evans, G.; Grant,
 Am. J. Hum. Genet. 54, 169-178, 1994
 A: Title: Amino acid substitutions of conserved residues in the carboxyl-terminal domain
 A: Reference number: I51870; MUID:94136476; PMID:8304336
 A: Accession: I51870
 A: Status: translated from GB/EMBL/DBJ
 A: Molecule type: mRNA
 A: Residues: 520-597, 'D', 599-680 <MA>
 A: Cross-references: GB:S68331; NID:9545180; PIDN:AAC0615.1; PID:9545181
 A: Note: mutant sequence from patient with metaphyseal chondrodysplasia type Schmid
 C: Comment: a second mutant sequence with 614-Pro is also described
 C: and subsequently O-glycosylated.
 C: Genetics:
 A: Gene: GDB:COL10A1
 A: Cross-references: GDB:128635; OMIM:120110
 A: Map position: 6q21-6q22
 A: Intron: 52/1
 A: Note: a defect in this gene may cause Schmid metaphyseal chondrodysplasia
 C: Complex: type X collagen may be a homotrimer
 C: Function:
 A: Description: structural component of extracellular fibrous polymer specifically and
 be important for skeletogenesis
 C: Superfamily: collagen alpha 1(VIII) chain; complement C1q carboxyl-terminal homology
 C: Keywords: coiled coil; extracellular matrix; glycoprotein; homotrimer; hydroxyls
 F: 1-18/Domain: signal sequence #status predicted <SIG>
 F: 19-680/Product: collagen alpha 1(X) chain #status predicted <MAT>
 F: 19-56/Domain: amino-terminal nonhelical #status predicted <NCA>
 F: 57-519/Region: interrupted helical
 F: 520-680/Domain: amino-terminal nonhelical #status predicted <NCA1>
 F: 553-679/Domain: complement C1q carboxyl-terminal homology <C1Q>
 F: 617/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 31.6%; Score 418.5; DB 1; Length 680;
 Best Local Similarity 34.8%; Pred. No. 5.4e-22;
 Matches 98; Conservative 34; Mismatches 82; Indels 67; Gaps 6;

OY 15 GSPRLDNNKIPSLCPGHGPRGHHNSGGLGGRDGRDAPGAPGEGKGRGGLP 74
 DB 401 GNPGLPGRKDPGVGGPGLPVPVGRAGAGMFGHNGEAPRGAPGLGTRGPRGPICP 460

OY 75 -----GPRDPPGRGA-----GPAPTGPAAGCS 99
 DB 461 GPRSKDPPSPGPRPAGIATKGLNGPTPPPPGPRGSGRGLGPPGPPGQAV 520

OY 100 VP-----PRSAFSAKRSRVRPPSDAPLPDRVLNBECHDAVATGKTCQVPGVYFAY 132
 DB 521 MPBGPIKAGORPSLSTGPLVANSAGVTVGMPVSAFTVLSKAY--PAIGTIPFDKILYNR 578


```

QY      15  GSPPLDNKNK.PSLCPCGHPGLPCTGHHGSGGLGCPDRDRDGA.PGAPGKSGSGSPGLP  74
      401  GNGPLPGPKDDPGIAGS.PGLGPGVPGAGAGGVGHNGEAPROVPGIPGIRGPI  460
QY      75  -----GPRDGPGRGA-----GPAGPPTGPAEGCS  99
Db      461  GPPGSKGDVGTGPPPGPAGIAYKGLNGPTPPTGPPGGRGNAGRGPLGPPGPPGPPQVA  520
QY      100  VP-----PSAFSAKRSERVPSPSDAPLPDRVLVNBQGHYDA  138
      521  LPBPFYVAGRGPRFVSANQVYGMGPMVSAFYIILSKAY--PAIGRPIDPKILYKKQGYHD  578
QY      139  VTGKFTQVPPGVYFAVVAHVATVTRASLOFDLVKNGESTIA-SFQPPFGGMPKPSALSGAMV  197
      579  RTGIFCTCKICGIYYFSYHIVKGTGHAWAGYKNGTPTVMYTYDEIKGYLDOA--SGSAVI  636
Db
QY      198  RLBPEDQWVOVGVDVIGIYASIKITDSTFSGFLV  232
      637  DLTENDQVWLQLPVAGSNGLYSPETVHSSFSGFLV  671
Db

```

RESULT 7

collagen alpha 1(X) chain precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 30-Sep-1993 #sequence, revision 30-Sep-1993 #text change 13-Aug-1999
C:Accession: S31216; S28807; S22215; S30127; 148299; S26397; S31830
R:Kong, R.Y.C.; Kwan, K.M.; Lau, E.T.; Thomas, J.T.; Boot-Handford, R.P.; Grant, M.E.; Q
Bur, J. Biochem. 213, 99-111, 1993
A:Title: Intron-exon structure, alternative use of promoter and expression of the mouse
A:Reference number: S31216; MUID:93238750; PMID:8477738
A:Accession: S31216
A:Molecule type: DNA
A:Residues: 1-680 <KBN>
A:Cross-references: EMBL:Z21610; NID:949793; PIND:CAAV9736.1; PID:949794
R:Elima, K.; Erota, I.; Rosati, R.; Mettaeranta, M.; Garofalo, S.; de C
Biochem. U. 289, 247-253, 1993
A:Title: The mouse collagen X gene: complete nucleotide sequence, exon structure and exp
A:Reference number: S28807; MUID:93143676; PMID:8424763
A:Accession: S28807
A:Molecule type: DNA
A:Residues: 1-285, 'A', 287-680 <ELI>
A:Cross-references: EMBL:X67348; NID:950480; PIND:CAA47763.1; PID:950481
R:Elima, K.; Mettaeranta, M.; Kallio, J.; Peraetiae, M.; Erota, I.; Garofalo, S.; de C
Biochim. Biophys. Acta 1130, 78-80, 1992
A:Title: Specific hybridization probes for mouse alpha-2(I) and alpha-1(X) collagen mRN
A:Reference number: S22215; MUID:92182017; PMID:1543751
A:Accession: S22215
A:Status: Preliminary
A:Molecule type: mRNA
A:Residues: 385-450, 'K', 452-627 <ELA>
A:Cross-references: EMBL:X63013; NID:949795; PIND:CAA44741.1; PID:949796
R:Ape, S.S.; Olsen, B.R.
Matrix 13, 165-179, 1993
A:Title: Characterization of the mouse type X collagen gene.
A:Reference number: S30127; MUID:93261348; PMID:8492743
A:Accession: S30127
A:Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-12, 'F', 14-26, 'S', 28-247, 'L', 249-285, 'A', 287-305, 'F', 307-416, 'S', 418-499, 'L'
R:Ape, S.S.; Seldin, M.F.; Hayashi, M.; Olsen, B.R.
Eur. J. Biochem. 206, 217-224, 1992
A:Title: Cloning of the human and mouse type X collagen genes and mapping of the mouse t
A:Reference number: 148299; MUID:92267014; PMID:1587271
A:Accession: 148299
A:Status: Preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 52-247, 'L', 249-285, 'A', 287-305, 'F', 307-416, 'S', 418-499, 'L', 501-566, 'C', 568, 'A'
A:Cross-references: EMBL:X65121; NID:950482; PIND:CAA46237.1; PID:9667031
R:Sumner, T.A.; Irwin, M.H.; Mayne, R.; Ballan, G.
J. Biol. Chem. 263, 581-587, 1988
A:Title: Monoclonal antibodies to type X collagen. Biosynthetic studies using an antibody

A:Reference number: S26397; MUID:88087150; PMID:2826450
A:Accession: S26397
A:Molecule type: protein
A:Residues: 'SDGYFSQ', 24-26, 'KQ' <SUM>
C:Genetics:
A:Gene: COL10A-1
A:Map position: 10
A:Introns: 51/3
C:Superfamily: collagen alpha 1(VIII) chain; complement C1q carboxyl-terminal homology
C:Keywords: coiled coil; extracellular matrix; glycoprotein; homotrimer
F.1-18/Domains: signal sequence #status predicted <SIG>
F.19-680/Product: collagen alpha 1(X) chain #status predicted <MAT>
F.553-679/Domains: complement C1q carboxyl-terminal homology <CIQ>

Query Match	30.8%	Score 408	DB 2	Length 680
Best Local Similarity	33.4%	Pred. No. 2.9e-21		
Matches 99	Conservative 34	Mismatches 75	Indels 88	Gaps 9

QY 1.5 GSPRLDDNRTPLSLCPGHGRLP-----GTPLGH-----GSQ 44
 | | | | |
 Db 392 GEPGLNGPK-----GNPGLPGQKCDPCVGCTPLRLGPRPVGAKGVPHNGEAPRGER 445

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Oy      45 GLPGHDGRDGDGAPGAEKEGGKRGPLPGPR-----GDGPRGEA---- 86
          ||| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      446 GIPGRPTGPSPGVPGFPGSGKDPPNGNAPGAPGAGIATKGKLNCTPYPGPPRPGHSGEPG 500
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Oy      87  --GPAPTGPAGCEGVP-----PRSAFSAKRSRVP 11
          |||||:  |||||
Db      506  LRGPFGPFGQAVMPDGFITKAGQRPRLSGMPLVSAHNGVTGMVPVSAFTVILSKAY--P 56

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[illegible]

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QY      177  SFFQFPGGMPXPRASLSCGAMVRLPEPDQVWVQVGVGDIYIGIVASIKTDSTFSGPLV 232
        ::::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      624  TYDYSKSGYLDQA--SGSAIMELTENDQVWLQIPNAESNGLYSEYVHSSFSFGPLV 677

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RESULT 8

СЛУЖБА

N:Alternate names: complement subcomponent C1q gamma complement subcomponent C1q chain C precursor - normal

C;Species: Homo sapiens (man)

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C;Date: 22-May-1981 #sequence_revision 31-May-1996 #text_change 22-May-1998
C;Accession: G14351.103307
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C; ACCESSION: S14331; A0320,
R; Seller: G.C.: Blake, D.J.: Reid, K.B.M.

Biochem. J. 274, 481-490, 1991

A;Title: Characterization and organization of the genes

A;Accession: S14351
A;Reference number: S14350; MUID:911/4/59; PMID:17

A;Status: not compared with conceptual translation

A;Molecule type: DNA

A;Residues: 1-245 <SEL>
P;Peid K B M

Biochem. J. 179, 367-371, 1979

A; Title: Complete amino acid sequences of the three collagen-like regions present in

A; Accession: A03207
A; Reference number: A90304; MUID:80020137; PMID:486087

A;Molecule type: protein

A;Residues: 29-56, 'P', 58-65, 'K', 67-71, 'P', 73-83, 'K', 85-86, 'D', 88-89, 'N', 91-122 <REI>

C; comment: The first component of complement is a calcium-dependent complex of the C1r (enzyme) and the other eight components of complement C1s (proenzyme).

C;Comment: The C1q subcomponent is composed of nine subunits, six of which are disul

dimers of the C chain. Equimolar amounts of the A, B, and C chains are found after

C;Genetics:

A;gene: GDB:C120
A;Cross-references: GDB:128132; OMIM:120575

A;Map position: 1p36.3-1p34.1

A; Introns: 60/

C:Keywords: complement pathway; homodimer; hydroxyllysine; hydroxyproline; superlaminally complement subcomponent c1q chain A; complement c1q carbohydrate-terminating

F;1-28/Domain: signal sequence #status predicted <SIG>

A;Cross-references: GDB:128104; OMIM:120251

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 20, 2003, 09:45:59 ; Search time 36 Seconds
(without alignments)

279.965 Million cell updates/sec

Title: US-09-944-403-42

Perfect score: 1325
Sequence: 1 MRPLVLLGLAGSPPLD.....DSTFGFLVYSDMHSPPFA 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1325	100.0	243	1	COT5_HUMAN
2	433.5	32.7	247	1	APM1_MOUSE
3	424	32.0	244	1	APM1_HUMAN
4	418.5	31.6	680	1	CA1A_HUMAN
5	417	31.5	674	1	CA1A_CHICK
6	412	31.1	246	1	CIQC_MOUSE
7	411.5	31.0	674	1	CA1A_BOVIN
8	410.5	31.0	289	1	COT7_HUMAN
9	408	30.8	680	1	CA1A_MOUSE
10	403	30.4	285	1	COT2_HUMAN
11	397	30.0	245	1	CIQC_HUMAN
12	374	28.2	744	1	CA18_RABIT
13	373	28.2	419	1	COLE_MOUSE
14	368	27.8	744	1	CA18_HUMAN
15	365.5	27.7	743	1	CA18_MOUSE
16	363	27.4	635	1	CA28_HUMAN
17	362	27.3	251	1	CIQB_HUMAN
18	360.5	27.2	253	1	CIQB_RAT
19	350	26.4	253	1	CIQB_MOUSE
20	314	23.7	245	1	CIQA_HUMAN
21	314	23.7	245	1	CIQA_MOUSE
22	298.5	22.5	255	1	GLUC_MOUSE
23	285.5	21.5	258	1	CIHF_HUMAN
24	282	21.3	258	1	CIHF_MOUSE
25	280.5	21.2	215	1	HP25_TAMSI
26	277.5	20.9	215	1	HP27_TAMSI
27	264.5	20.0	246	1	COT3_HUMAN
28	261.5	19.7	196	1	HP20_TAMSI
29	230.5	17.4	1049	1	CA13_BOVIN
30	229.5	17.3	281	1	COT1_HUMAN
31	228	17.2	684	1	CA39_HUMAN
32	224	16.9	636	1	CA13_RAT
33	223	16.8	1464	1	CA13_MOUSE

34	222.5	16.8	1758	1	CA24_CAEEL	P17140 caenorhabdi
35	221.5	16.7	170	1	CA28_MOUSE	P25318 mus musculus
36	221	16.7	1019	1	CA16_CHICK	P20785 gallus galli
37	221	16.7	1262	1	CA13_CHICK	P12105 gallus galli
38	220	16.6	248	1	PSPA_CANFA	P06908 canis famli
39	220	16.6	360	1	CCD2_CAEEL	P35799 caenorhabdi
40	219.5	16.6	247	1	PSPA_RABIT	P12842 oryctolagus
41	219.5	16.6	1466	1	CA13_HUMAN	P02461 homo sapien
42	219	16.5	671	1	CA11_RAT	P02454 rattus norv
43	218.5	16.5	1453	1	CA11_MOUSE	P11087 mus musculus
44	217.5	16.4	1516	1	CA1H_HUMAN	P39060 homo sapien
45	217	16.4	747	1	CA12_BOVIN	P02459 bos taurus

ALIGNMENTS

RESULT 1
ID COT5_HUMAN STANDARD; PRT; 243 AA.
AC Q9BXJ0; Q9BXJ4; 41. Created
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Complement-c1q tumor necrosis factor-related protein 5 precursor.
GN C1QTNF5 OR CTRP5.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Sheppard P.O., Humes J.M.;
RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
RL Submitted (DEC-2000) to the EMBL/Genbank/DBJ databases.
[2]
RP SEQUENCE OF 25-243 FROM N.A.
RC Tissue=uterus;
RA Ottenwelder B., Obermaier B., Mewes H.-W., Gassenhuber J.,
RA Wiemann S.;
RL Submitted (AUG-1999) to the EMBL/Genbank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC or send an email to license@sib-sib.ch).
CC
CC EMBL; AF329841; AK117965.1; -
CC EMBL; AL110261; CAB53702.1; -
CC Genew; HGNC:14344; C1QTNF5.
DR InterPro: IPR001073; C1Q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01391; Collagen; 1.
DR PRINTS: PRO0007; COMPLEMENTC1Q.
DR SMART: SM00110; C1Q; 1.
DR PROSITE: PS01113; C1Q; FALSE_NEG.
KW Collagen; Signal.
FT SIGNAL 1 15
FT CHAIN 16 243
FT DOMAIN 30 95
FT DOMAIN 97 243
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Best Local Similarity 100.0%; Pred. No. 1.7e-85;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTTGHHGSGCLPRDGRDGRDARG 60
 DB 1 MRPLVLLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTTGHHGSGCLPRDGRDGRDARG 60
 QY 61 ARGKGGGGRGRLGGPRDPPGRGAGPAGPTGPGAGSVPPRFAFSAKRSERVRPPSD 120
 DB 61 ARGKGGGGRGRLGGPRDPPGRGAGPAGPTGPGAGSVPPRFAFSAKRSERVRPPSD 120
 QY 121 APLEFDRVLVNEGGHYDAVTGKTCQVPGVYFAVHAATVYRASLQFDLVKNGESIASFPQ 180
 DB 121 APLEFDRVLVNEGGHYDAVTGKTCQVPGVYFAVHAATVYRASLQFDLVKNGESIASFPQ 180
 QY 181 FFGGMPKPRASISGCMVRLPEPPDQWVQGVDDYIGYASTTDSFGELVYSDMHSPP 240
 DB 181 FFGGMPKPRASISGCMVRLPEPPDQWVQGVDDYIGYASTTDSFGELVYSDMHSPP 240
 QY 241 VFA 243
 DB 241 VFA 243

RESULT 2
 APML MOUSE STANDARD; PRT: 247 AA.
 ID APML_MOUSE
 AC Q60994; Q62400; Q9DC68;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Adiponectin precursor (30 kDa adipocyte complement-related protein) (ACRP30) (Adipocyte specific protein AdipoQ).
 GN APM1 OR ACRP30 OR ADIPOQ.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Adipocyte; PubMed=7592907;
 RA Scherer P.E., Williams S., Fogliano M., Baldini G., Lodish H.F.;
 RT "A novel serum protein similar to C1q, produced exclusively in adipocytes.";
 RL J. Biol. Chem. 270:26746-26749(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Fibroblast; PubMed=8631877;
 RA Hu E., Liang P., Spiegelman B.M.;
 RT "AdipoQ is a novel adipose-specific gene dysregulated in obesity.";
 RL J. Biol. Chem. 271:10697-10703(1996).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC PubMed=1162643;
 RA Das K., Lin Y., Widen E., Zhang Y., Scherer P.E.;
 RT "Chromosomal localization, expression pattern, and promoter analysis of the mouse gene encoding adipocyte-specific secretory protein Acrop30.";
 RL Biochem. Biophys. Res. Commun. 280:1120-1129(2001).
 RP [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Heart; PubMed=11217851;
 RX MEDLINE=1085660; PubMed=11217851;
 RA Kawai T., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y., Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I., Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R., Kodaira K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H., Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., Schiraldi L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Mashio T., Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barish G., Blake J., Botfeill D., Bojunga N., Carninci P., de Bonaldo M.F.,

RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H., Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombauts P., Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F., Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L., Wyshak-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohseki S., Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 403:685-690(2001).
 RN [5]
 RP FUNCTION.
 RX MEDLINE=21372498; PubMed=11479627;
 RA Yanouchi T., Kamon J., Waki H., Terauchi Y., Kubota N., Hara K., Mori Y., Ide T., Murakami K., Tsuboyama-Kaseoka N., Ezaki O., Akanuma Y., Gavrilova O., Vinson C., Reitman M.L., Kagechika H., Shudo K., Yoda M., Nakano Y., Tobe K., Nagai R., Kimura S., Tomita M., Froguel P., Kadowaki T.;
 RA "The fat-derived hormone adiponectin reverses insulin resistance associated with both lipodystrophy and obesity.";
 RT Nat. Med. 7:941-946(2001).
 RN [6]
 RP FUNCTION.
 RX MEDLINE=21372499; PubMed=11479628;
 RA Berg A.H., Combs T.P., Du X., Brownlee M., Scherer P.E.;
 RT "The adipocyte-secreted protein Acrp30 enhances hepatic insulin action.";
 RL Nat. Med. 7:947-953(2001).
 CC -1- FUNCTION: IMPORTANT NEGATIVE REGULATOR IN HEMATOPOIESIS AND IMMUNE SYSTEMS; MAY BE INVOLVED IN ENDING INFLAMMATORY RESPONSES THROUGH ITS INHIBITORY FUNCTIONS. INHIBITS ENDOTHELIAL NF-KAPPA SIGNALING THROUGH A CAMP-DEPENDENT PATHWAY. INHIBITS TNF-ALPHA-INDUCED EXPRESSION OF ENDOTHELIAL ADHESION MOLECULES. INVOLVED IN THE CONTROL OF FAT METABOLISM AND INSULIN SENSITIVITY.
 CC -1- SUBUNIT: HOMODIGOMER.
 CC -1- SUBCELLULAR LOCATION: SECRETED IN PLASMA.
 CC -1- TISSUE SPECIFICITY: SYNTHESIZED EXCLUSIVELY BY ADIPOCYTES AND SECRETED INTO SERUM.
 CC -1- INDUCTION: DURING HORMONE-INDUCED ADIPOSE DIFFERENTIATION AND ACTIVATED BY INSULIN.
 CC -1- SIMILARITY: CONTRAINS 1 C1Q DOMAIN.
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 CC EMBL: U37222; AAA80543.1; --
 CC EMBL: U49915; AAB06706.1; --
 CC EMBL: AF304466; AAK13417.1; --
 CC EMBL: AK003138; BAB22597.1; --
 CC MGI: MGI:106675; Acrp30.
 CC InterPro: IPR001073; C1q.
 CC InterPro: IPR000087; Collagen.
 CC Pfam: PF00386; C1q; 1.
 CC Pfam: PF01391; Collagen; 1.
 CC PRINTS: PR00007; COMPLEMENTC1Q.
 CC SMART: SM00110; C1Q; 1.
 CC PROSITE: PS01113; C1Q; 1.
 CC Hormone; Collagen; Signal; Repeat; Hydroxylation; Plasma;
 CC Polymorphism.
 CC SIGNAL 1 17
 CC CHAIN 18 247
 CC DOMAIN 45 110
 CC DOMAIN 111 247
 CC DISULFID 39 39
 CC MOD_RES 47 47
 CC MOD_RES 50 50
 CC MOD_RES 56 56
 CC MOD_RES 56 56
 CC INTERCHAIN (BY SIMILARITY)
 CC HYDROXYLATION (BY SIMILARITY)
 CC HYDROXYLATION (BY SIMILARITY)
 CC HYDROXYLATION (BY SIMILARITY)
 CC HYDROXYLATION (BY SIMILARITY)

FT MOD_RES 65 65 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 79 79 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 98 98 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 107 107 HYDROXYLATION (BY SIMILARITY).
 FT VARIANT 113 113 M -> V.
 FT CONFLICT 50 50 P -> S (IN REF. 2).
 FT CONFLICT 74 74 A -> S (IN REF. 2).
 FT CONFLICT 117 117 A -> G (IN REF. 2).
 FT CONFLICT 148 148 G -> N (IN REF. 2).
 FT CONFLICT 243 243 Y -> F (IN REF. 2).
 SQ SEQUENCE 247 AA; 26841 MW; 137B687D873986C4 CRC64;
 Query Match 32.7%; Score 433.5; DB 1; Length 247;
 Best Local Similarity 40.6%; Pred.No. 1,2e-23;
 Matches 102; Conservative 32; Mismatches 92; Indels 25; Gaps 8;
 QY 1 MRPLVLLLL-GLAAGSPPLDNRKPSLCPGHPG-----LPCTPGHSSQGLPGRDGDG 54
 DB 4 LQALLFLILPSHADDDVTTBELAPALVPPPKGICACMMAGIPGHNGTGRDGRD- 62
 QY 55 RDGAPGAPGKGGKGRPGILPGPRGD-----PGRGEGAPGAPGTPGEGCVPPRSA 105
 DB 63 -----GTGEGKGGKGDAGLPGKGGVGMGTGAGCGRPGPCTPGKGGPGEAAVYRSA 117
 QY 106 PSKSGSRVPPSPAPLPFPRVLYNBOGHYDAVNGKTCVPGVYVAVATVYRASLQ 165
 DB 118 FSV-GLFTRVTP-NVPIKFTKIFYNQOHYDGSFGKFCNIPGLYTSYHITVVKOVK 175
 QY 166 PLYVNGESIASFFQFGGMPKASISGAVRLPEPDVQVQV-GVGDYIGIVASIKTD 224
 DB 176 VSLFKDRAVLFTYQYQYQY-KYVDQASGSVLLHLEVGQVWLVQYVGGDGHNLVADNVND 234
 QY 225 STFGGLYSD 235
 DB 235 STFGGLYHD 245
 RESULT 3
 APM1 HUMAN STANDARD; PRT; 244 AA.
 ID APM1 HUMAN
 AC 015648;
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 01-NOV-1997 (Rel. 41, Last annotation update)
 DE Adiponectin precursor (30 kDa adipocyte complement-related protein) (ACRP30) (adipose most abundant gene transcript 1) (apm-1) (gelatin-binding protein).
 GN APM1 OR ACRP30 OR GBP28.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OC NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=adipose tissue;
 RX MEDLINE=96224111; PubMed=8619847;
 RA Maeda K., Okubo K., Shimomura I., Funahashi T., Matsuzawa Y., Matsubara K.;
 RT "cDNA cloning and expression of a novel adipose specific collagen-like factor, apm1 (adipose most abundant gene transcript 1).";
 RL Biochem. Biophys. Res. Commun. 221:286-289(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=9916984; PubMed=10095105;
 RA Saito K., Tobe T., Minoshima S., Asakawa S., Sumiya J., Yoda M., Nakano Y., Shimizu N., Tomita M.;
 RT "Organization of the gene for gelatin-binding protein (GBP28).";
 RL Gene 229:67-73(1999).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99333693; PubMed=10403784;
 RA Schaeffler A., Orso E., Palitzsch K.D., Buechler C., Drobnik W., Puerst A., Schoelmerich J., Schmitz G.;

RT "The human apm-1, an adipocyte-specific gene linked to the family of TNF's and to genes expressed in activated T cells, is mapped to chromosome 1q21.3-q23, a susceptibility locus identified for familial combined hyperlipidemia (FCH).";
 RT Biochem. Biophys. Res. Commun. 260:416-425(1999).
 RL [4]
 RP CHARACTERIZATION.
 RX MEDLINE=20417747; PubMed=10961870;
 RA Yokota T., Ohtani K., Takahashi I., Ishikawa J., Matsuyama A., Ouchi N., Kihara S., Funahashi T., Tamer A.D., Tomiyama Y., Matsuzawa Y.;
 RT "Adiponectin, a new member of the family of soluble defense collagens, negatively regulates the growth of myelomonocytic progenitors and the functions of macrophages.";
 RL Blood 96:1723-1732(2000).
 RN [5]
 RP CHARACTERIZATION.
 RX MEDLINE=20440368; PubMed=10982546;
 RA Ouchi N., Kihara S., Arita Y., Okamoto Y., Maeda K., Kuriyama H., Hotta K., Nishida M., Takahashi M., Muraguchi M., Ohmoto Y., Nakamura T., Yamashita S., Funahashi T., Matsuzawa Y.;
 RT "Adiponectin, an adipocyte-derived plasma protein, inhibits endothelial NF-kappaB signaling through a C/EBP-dependent pathway.";
 RL Circulation 102:1296-1301(2000).
 RN [6]
 RP FUNCTION.
 RX MEDLINE=21372498; PubMed=11479627;
 RA Yamauchi T., Kamon J., Waki H., Terauchi Y., Kubota N., Hara K., Mori Y., Ide T., Murakami K., Tsudoyama-Kasaoaka N., Ezaki O., Akanuma Y., Gavrilova O., Vinson C., Retman M.L., Kagechika H., Shudo K., Yoda M., Nakano Y., Tobe K., Nagai R., Kimura S., Tomita M., Froguel P., Kadowaki T.;
 RT "The fat-derived hormone adiponectin reverses insulin resistance associated with both lipodystrophy and obesity.";
 RL Nat. Med. 7:941-946(2001).
 RN [7]
 RP VARIANT ADIPONECTIN DEFICIENCY CYS-112.
 RX MEDLINE=20378830; PubMed=10918532;
 RA Takahashi M., Arita Y., Yamagata K., Matsukawa Y., Okutomi K., Horie M., Shimomura I., Hotta K., Kuriyama H., Kihara S., Nakamura T., Yamashita S., Funahashi T., Matsuzawa Y.;
 RT "Genomic structure and mutations in adipose-specific gene, adiponectin.";
 RL Int. J. Obes. Relat. Metab. Disord. 24:861-868(2000).
 RN [8]
 RP VARIANTS ARG-84; MET-117; THR-164; SER-221 AND PRO-241.
 RX MEDLINE=21671103; PubMed=11812766;
 RA Hara K., Boutin P., Mori Y., Tobe K., Dina C., Yasuda K., Yamauchi T., Otake S., Okada T., Ito K., Kadowaki H., Hagura R., Akanuma Y., Yazaki Y., Nagai R., Taniyama M., Matsubara K., Yoda M., Nakano Y., Kimura S., Tomita M., Kimura S., Ito C., Froguel P., Kadowaki T.;
 RT "Genetic variation in the gene encoding adiponectin is associated with an increased risk of type 2 diabetes in the Japanese population.";
 RL Diabetes 51:536-540(2002).
 CC -!- FUNCTION: IMPORTANT NEGATIVE REGULATOR IN HEMATOPOIESIS AND IMMUNE SYSTEMS; MAY BE INVOLVED IN ENDING INFLAMMATORY RESPONSES THROUGH ITS INHIBITORY FUNCTIONS. INHIBITS ENDOTHELIAL NF-KAPPA-B SIGNALING THROUGH A CAMP-DEPENDENT PATHWAY. INHIBITS TNF-ALPHA-INDUCED EXPRESSION OF ENDOTHELIAL ADHESION MOLECULES. INVOLVED IN THE CONTROL OF FAT METABOLISM AND INSULIN SENSITIVITY.
 CC -!- SUBUNIT: HOMODIGOMER (POTENTIAL).
 CC -!- SUBCELLULAR LOCATION: SECRETED IN PLASMA.
 CC -!- TISSUE SPECIFICITY: EXPRESSED ONLY IN THE ADIPOSE TISSUE.
 CC -!- DISEASE: Defects in APM1 are the cause of adiponectin deficiency, resulting in very low concentration of plasma adiponectin.
 CC -!- insulin resistance, and diabetes type 2.
 CC -!- PHARMACEUTICAL: Adiponectin might be used in the treatment of diabetes type 2 and insulin resistance.
 CC -!- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
 CC -!- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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 CC or send an email to license@isb-sib.ch).

DR EMBL; DA5371; BAA08227.1; -
 DR EMBL; AB012165; BAA86716.1; JOINED.
 DR EMBL; AB012164; BAA86716.1; JOINED.
 DR EMBL; AJ131460; CAB52413.1; -
 DR EMBL; AJ131461; CAB52413.1; JOINED.
 DR MIM; 605441; -
 DR InterPro; IPR001073; C1q.
 DR InterPro; IPR000087; Collagen.
 DR Pfam; PF00386; C1q; 1.
 DR Pfam; PF01391; Collagen; 1.
 DR PRINTS; PR00007; COMPLEMENTC1Q.
 DR SMART; SM00110; C1Q; 1.
 DR PROSITE; PS01113; C1Q; 1.
 KW Hormone; Collagen; Signal; Repeat; Hydroxylation; Plasma;
 KW Polymorphism; Disease mutation; Obesity; Diabetes mellitus.
 FT SIGNAL 1 14
 FT CHAIN 15 244
 FT DOMAIN 42 107
 FT DOMAIN 108 244
 FT DISULFID 36 36
 FT MOD_RES 44 44
 FT MOD_RES 47 47
 FT MOD_RES 53 53
 FT MOD_RES 62 62
 FT MOD_RES 71 71
 FT MOD_RES 76 76
 FT MOD_RES 86 86
 FT MOD_RES 95 95
 FT MOD_RES 104 104
 FT VARIANT 84 84
 FT VARIANT 112 112
 FT VARIANT 117 117
 FT VARIANT 164 164
 FT VARIANT 221 221
 FT VARIANT 241 241
 FT SEQUENCE 244 AA; 26414 MW; 64D8C6C104B1018 CRC64;
 SQ
 Query Match 32.0%; Score 424; DB 1; Length 244;
 Best Local Similarity 40.5%; Pred. No. 5.3e-23;
 Matches 106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;

QY 6 VLLILGLAAGSPPLDNNKIPSLCRGH-----PG-----LPGTGHHGSGQ 44
 DB 7 VLLILAL-----PGHDETTTGGGVLLPLPKGACCTGMMAGIPIHGRHN 50
 QY 45 GLPGRDGRDGRDGAFCAGKEGEGRPGILPGRPD-----PGPRGEAGPAPGTPA 95
 DB 51 GARGDGRD-----GTRGEKGEKDPGLIGKGIIGETGVPGAGPRPGIQRKGEF 104
 QY 96 GECVPPRSGAFSAKSESRSRPPSDAPLPFRVLVNEQGHDAVTGKTCCVPRGVYRAY 155
 DB 105 GEGAVYYSAPFSV-GLETVVTP-NMIRFTKIFYNQONHVDGSGKFKHCNIPGLYRAY 162
 QY 156 HATYVRASLQPLVNGGS-IASFPQFGWPKPAPSLSGAVNRLEPEDQWVQY-GVGD 213
 DB 163 HTTVYKDVKSLFKKDKAMLFTYDQYQENNVDA-SGSVLIHLFVGDQWLVQYGGGE 220
 QY 214 YIGIYASIKTDSIFSGFLVYSD 235
 DB 221 RGLVYADNDNDSTFGFLLYHD 242

RESULT 4
 ID CAIA HUMAN STANDARD; PRT; 680 AA.
 AC 003692;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Collagen alpha 1(X) chain precursor.
 GN COL10A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Butheria; Primates; Catarrhini; Homnidae; Homo.
 OC NCBI_TaxId=9606;
 RN (1)
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92109659; PubMed=1764025;
 RA Thomas J.T., Cresswell C.J., Rash B., Nicolai H., Jones T.,
 RA Solomon E., Grant M.E., Boot-Handford R.P.;
 RT "The human collagen X gene. Complete primary translated sequence and
 RT chromosomal localization.";
 RL Biochem. J. 280:617-623 (1991).
 RN (2)
 RP SEQUENCE FROM N.A.
 RX MEDLINE=93012005; PubMed=1397333;
 RA Reichdeberger E., Beier F., Luvallie P., Olsen B.R., von der Mark K.,
 RA Bertling W.M.;
 RT "Genomic organization and full-length cDNA sequence of human collagen
 RT X.";
 RL FEBS Lett. 311:305-310 (1992).
 RN (3)
 RP SEQUENCE FROM N.A.
 RA Beier F., Lamm M.B., von der Mark K.;
 RL Submitted (JUN-1996) to the EMBL/GenBank/DBJ databases.
 RN (4)
 RP SEQUENCE FROM N.A.
 RA Williams S.;
 RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
 RN (5)
 RP SEQUENCE OF 52-680 FROM N.A.
 RX MEDLINE=92267014; PubMed=1587271;
 RA Apte S.S., Seldin M.F., Hayashi M., Olsen B.R.;
 RT "Cloning of the human and mouse type X collagen genes and mapping of
 RT the mouse type X collagen gene to chromosome 10.";
 RL Eur. J. Biochem. 206:217-224 (1992).
 RN (6)
 RP SEQUENCE OF 561-666 FROM N.A.
 RX MEDLINE=91243838; PubMed=2037056;
 RA Apte S., Mattei M.-G., Olsen B.R.;
 RT "Cloning of human alpha 1(X) collagen DNA and localization of the
 RT COL10A1 gene to the q21-q22 region of human chromosome 6.";
 RL FEBS Lett. 282:393-396 (1991).
 RN (7)
 RP SEQUENCE OF 547-655 FROM N.A.
 RX MEDLINE=92077285; PubMed=1743401;
 RA Reichdeberger E., Aigner T., von der Mark K., Stoeck H., Bertling W.;
 RT "In situ hybridization studies on the expression of type X collagen
 RT in fetal human cartilage.";
 RL Dev. Biol. 148:562-572 (1991).
 RN (8)
 RP REVIEW ON VARIANTS.
 RX MEDLINE=97255959; PubMed=9101290;
 RA Kuivaniemi H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 RT associated collagen (type IX), and network-forming collagen (type X)
 RT cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315 (1997).
 RN (9)
 RP VARIANTS SMCD ASP-598 AND PRO-614.
 RX MEDLINE=94136476; PubMed=8104336;
 RA Wallis G.A., Rash B., Sweetman W.A., Thomas J.T., Super M., Evans G.,
 RA Grant M.E., Boot-Handford R.P.;

RT "amino acid substitutions of conserved residues in the
RT carboxyl-terminal domain of the alpha 1(X) chain of type X collagen
RT occur in two unrelated families with metaphyseal chondrodysplasia
RT type X humd.";
RL Am. J. Hum. Genet. 54:169-178(1994) .
RN [10]
RN VARIANT SMCD ARG-591.
RX MEDLINE=94272470; PubMed=8004099;
RA McIntosh I., Abbott M.H., Matman M.L., Olsen B.R., Francomano C.A.;
RT "Additional mutations of type X collagen confirm COL10A1 as the
RT Schmid metaphyseal chondrodysplasia locus.";
RL Hum. Mol. Genet. 3:303-307(1994) .
RN [11]
RN VARIANT SMCD VAL-618.
RX MEDLINE=95181449; PubMed=7876225;
RA Chan D., Cole W.G., Rogers J.G., Bateman J.F.;
RT "Type X collagen multimer assembly in vitro is prevented by a Gly618
RT to Val mutation in the alpha 1(X) NC1 domain resulting in Schmid
RT metaphyseal chondrodysplasia.";
RL J. Biol. Chem. 270:4558-4562(1995) .
RN [12]
RN VARIANT SMCD ARG-545; GLU-595; HIS-597; LYS-617; ARG-644 AND GLY-648
RP MEDLINE=95331767; PubMed=7607655;
RX Bonaventure J., Chamnade F., Maroteaux P.;
RT "Mutations in three subdomains of the carboxy-terminal region of
RT collagen type X account for most of the Schmid metaphyseal
RT dysplasias.";
RL Hum. Genet. 96:58-64(1995) .
RN [13]
RN VARIANT SMCD PRO-600.
RX MEDLINE=96375754; PubMed=8782043;
RA Wallis G.A., Raab B., Sykes B., Bonaventure J., Maroteaux P.,
RA Zabel B., Wynne-Davies R., Grant M.E., Boot-Handford R.P.;
RT "Mutations within the gene encoding the alpha 1 (X) chain of type X
RT collagen (COL10A1) cause metaphyseal chondrodysplasia type Schmid but
RT not several other forms of metaphyseal chondrodysplasia.";
RL J. Med. Genet. 33:450-457(1996) .
RN [14]
RN VARIANT SMCD GLU-18 AND ARG-18.
RX MEDLINE=97220591; PubMed=9067753;
RA Ikegawa S., Nakamura K., Nagano A., Haga N., Nakamura Y.;
RT "Mutations in the N-terminal globular domain of the type X collagen
RT gene (COL10A1) in patients with schmid metaphyseal
RT chondrodysplasia.";
RL Hum. Mutat. 9:131-135(1997) .
RN [15]
RN VARIANT SMCD GLU-595.
RX MEDLINE=99057503; PubMed=9837818;
RA Ikegawa S., Nishimura G., Nagai T., Hasegawa T., Ohashi H.,
RA Nakamura Y.;
RT "Mutation of the type X collagen gene 'COL10A1' causes
RT sporadic metaphyseal dysplasia.";
RL Am. J. Hum. Genet. 63:1659-1662(1998) .
RN [16]
RN VARIANT SMCD CYS-597.
RX MEDLINE=99069781; PubMed=9852679;
RA Sawai H., Ida A., Nakata Y., Koyama K.;
RT "Novel missense mutation resulting in the substitution of tyrosine by
RT cysteine at codon 597 of the type X collagen gene associated with
RT Schmid metaphyseal chondrodysplasia.";
RL J. Hum. Genet. 43:259-261(1998) .
RN [17]
RN FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTROPHIC
CC CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE
CC MINERALIZATION ZONES OF HYALINE CARTILAGE.
CC [1]
CC -1- SUBUNIT: HOMOTRIMER.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- DISEASE: DEFECTS IN COL10A1 ARE THE CAUSE OF SCHMID TYPE
CC METAPHYSEAL CHONDRODYSPLASIA (SMCD), A DOMINANTLY INHERITED
CC DISORDER OF THE OSSIOUS SKELETON. THE CARDINAL FEATURES OF THE
CC PHENOTYPE ARE MILD SHORT STATURE, COXA VARA AND A WADDLING GAIT.
CC RADIOGRAPHY USUALLY SHOWS SCLEROSIS OF THE RIBS, FLARING OF THE
CC METAPHYSES, AND A WIDE IRREGULAR GROWTH PLATE, ESPECIALLY OF THE

[illegible]

DB 521 MPEGRKAGQRPSTLSTPLVSNAGVGTGAPVSAFTVILSKAY--PAIGTPIPPDKILYNR 578
 QY 133 QGHDAVATGKTCQVPGYVYAVATVTRASIQPLVYNGESIA-SFQFGCGMKXPSTL 191
 DB 579 QOHYDPRGIFTCQIPGIYFYSYHVHVGTHVWGLYNNGPVMTYDEYTKGYLDOA-- 636
 QY 192 SGAMVRLPEPDQVWVGVDYIGIVASIKDSTFSGFLV 232
 DB 637 SGAIIIDLTENDQVWMLQLPNBSNGLYSSEYVHSSFSGFLV 677
 RESULT 5
 CALA CHICK STANDARD; PRT; 674 AA.
 AC P08125;
 DT 01-AUG-1988 (Rel. 08, Created)
 DT 01-NOV-1991 (Rel. 20, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Collagen alpha 1(X) chain precursor.
 GN COL10A1.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OX NCBI_TaxId=9031;
 RN [1]
 RP SEQUENCE OF 48-674 FROM N.A., AND SEQUENCE OF 103-117 AND 453-466.
 RX MEDLINE=86168227; PubMed=3082876;
 RA Niinomiya Y., Gordon M., van der Rest M., Schmid T., Linsenmayer T.,
 RA Olsen B.R.;
 RT "The developmentally regulated type X collagen gene contains a long
 RT open reading frame without introns."
 RL J. Biol. Chem. 261:5041-5050(1986).
 RN [2]
 RP SEQUENCE OF 1-75 FROM N.A.
 RX MEDLINE=89054019; PubMed=2461368;
 RA Luvall P., Niinomiya Y., Rosenblum N.D., Olsen B.R.;
 RT "The type X collagen gene. Intron sequences split the 5'-untranslated
 RT region and separate the coding regions for the non-collagenous amino-
 RT terminal and triple-helical domains."
 RL J. Biol. Chem. 263:18378-18385(1988).
 RN [3]
 RP REVISIONS TO C-TERMINUS.
 RX MEDLINE=89380199; PubMed=2476437;
 RA Yamaguchi N., Banya P.D., van der Rest M., Niinomiya Y.;
 RT "The cloning and sequencing of alpha 1(VIII) collagen cDNAs
 RT demonstrate that type VIII collagen is a short chain collagen and
 RT contains triple-helical and carboxyl-terminal non-triple-helical
 RT domains similar to those of type X collagen."
 RL J. Biol. Chem. 264:16022-16029(1989).
 RN [4]
 RP FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTHROPHIC
 CC CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE
 CC MINERALIZATION ZONES OF HYALINE CARTILAGE.
 CC [1]
 CC SUBUNIT: HOMOTRIMER.
 CC [1]
 CC PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
 CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
 CC [1]
 CC SIMILARITY: STRONG, TO ALPHA 1 AND 2 TYPE VIII COLLAGENS.
 CC [1]
 CC SIMILARITY: CONTAINS 1 C1Q DOMAIN.
 CC [1]
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 CC [1]
 CC EMBL; M13496; AAA48736.1; ALT_SEQ.
 CC EMBL; J04194; AAA48634.1; -
 CC PIR; A31896; A31896.
 CC InterPro; IPR001073; C1q.
 CC InterPro; IPR000087; Collagen.
 CC Pfam; PF00386; C1q; 1.

DR Pfam; PF01391; Collagen; 8.
 DR PRINTS: PR000007; COMPLEMENTC1Q.
 DR SMART; SM00110; C1Q; 1.
 DR PROSITE; PS01113; C1Q; 1.
 KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 KW Cartilage; Collagen; Signal.
 FT SIGNAL 1 18
 FT CHAIN 19 674 COLLAGEN ALPHA 1(X) CHAIN.
 FT DOMAIN 19 52 NONHELICAL REGION (NC2).
 FT DOMAIN 53 512 TRIPLE-HELICAL REGION.
 FT DOMAIN 513 674 NONHELICAL REGION (NC1).
 FT DOMAIN 539 674 C1Q.
 FT MOD RES 453 453 HYDROXYLATION.
 FT MOD RES 456 456 HYDROXYLATION.
 SQ SEQUENCE 674 AA; 66434 MW; EAB48B1E174B145 CRC64;
 Query Match 31.5%; Score 417; DB 1; Length 674;
 Best Local Similarity 36.0%; Pred. No. 4,4e-22;
 Matches 96; Conservative 34; Mismatches 84; Indels 53; Gaps 6;
 QY 14 AGSPPLDNDKIPSLCPHRLPRTGHHGSGQLPGRDGRDGDAPGAPGEGGGRPL 73
 DB 408 AGHPGLPQPVGPQGVKGVPGINGEPGPGPSGIPGVKGTIPGMPGAPGAGAGAPGL 467
 QY 74 PGPR-----GDPGRGEA-----GPAGTPGAPGECSP----- 101
 DB 468 PGPAGIVTKGLGMPGIPGPPGKNGSGERGLPGPPGPPGPGQSTIRBGVYKGSRELS 527
 QY 102 -----PSAPFSAKSSBSRVPSPDAPLPFDRLVNVGQHDVATGKTC 145
 DB 528 GMSFPAKAGANQALGTGAPVSAFTVILSKAY--PGATVPIKFDKILYNROOHYDPRGIFTC 585
 QY 146 QVPGYVYAVATVTRASIQPLVYNGESIA-SFQFGCGMKXPSTLSGAMVRLPEPDQ 204
 DB 586 RLPGLYFYSYHVHAKGTWVWALYNNGSPVMTYDEYKGYLDOA--SGSAVIDLMENDQ 643
 QY 205 VVWVGVDYIGIVASIKDSTFSGFL 231
 DB 644 VWLQLPNBSNGLYSSEYVHSSFSGFL 670
 RESULT 6
 C1QC MOUSE STANDARD; PRT; 246 AA.
 AC 002105;
 DT 01-JUL-1993 (Rel. 26, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Complement C1q subcomponent, C chain precursor.
 GN C1QC OR C1QC.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxId=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ICR. TISSUE=Macrophage;
 RX MEDLINE=93011118; PubMed=1396691;
 RA Petry F., Reid K.B.M., Loos M.;
 RT "Isolation, sequence analysis and characterization of cDNA clones
 RT coding for the C chain of mouse C1q. Sequence similarity of
 RT complement subcomponent C1q, collagen type VIII and type X and
 RT prececebellin."
 RL Eur. J. Biochem. 209:129-134(1992).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Liver;
 RX MEDLINE=96186528; PubMed=8606057;
 RA Petry F., McClive P.J., Borto M., Morley B.J., Morahan G., Loos M.;
 RT "The mouse C1q genes are clustered on chromosome 4 and show
 RT conservation of gene organization."
 RL Immunogenetics 43:370-376(1996).
 CC [1]
 CC FUNCTION: C1Q ASSOCIATES WITH THE PROENZYME C1R AND C1S TO YIELD

Db	187	LARVAESCDBMEN-SKQVS-SGCALLRLRGDEWV--LSVNDVNGMVGIEGNSVPSGRL	242
OY	232	VYSD 235	
Db	243	LPFD 246	
RESULT 7			
ID	CAIA BOVIN	STANDARD;	PRT; 674 AA.
AC	P23206;		
DT	01-NOV-1991 (Rel. 20, Created)		
DT	01-NOV-1991 (Rel. 20, Last sequence update)		
DT	15-JUN-1999 (Rel. 38, Last annotation update)		
DE	Collagen alpha 1(X) chain precursor.		
GN	COL10A1.		
OS	Bos taurus (bovine).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;		
OC	Bovidae; Bovinae; Bos.		
OX	NCBI_TaxID=9913;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
TX	TISSUE=Cartilage;		
RX	MEDLINE=9111331; PubMed=1703407;		
RA	Thomas J.T., Kwan A.P.L., Grant M.E., Boot-Handford R.P.;		
RT	"Isolation of cDNAs encoding the complete sequence of bovine type X		
RT	collagen. Evidence for the condensed nature of mammalian type X		
RT	collagen genes."		
RL	Biochem. J. 273:141-148(1991).		
CC	-1- FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTHROPHIC		
CC	CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE		
CC	MINERALIZATION ZONES OF HYALINE CARTILAGE.		
CC	-1- SUBUNIT: HOMOTRIMER.		
CC	-1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING		
CC	UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.		
CC	-1- SIMILARITY: STRONG. TO ALPHA 1 AND 2 TYPE VII COLLAGENS.		
CC	-1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.		
CC	-----		
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CC	or send an email to license@isb-sib.ch).		
CC	-----		
DR	EMBL, X53556; CAA37624.1; -		
DR	PIR, S13301; S13301.		
DR	InterPro, IPR001073; C1q.		
DR	InterPro, IPR000087; Collagen.		
DR	PFam, PF00386; C1q; 1.		
DR	PFam, PF01391; Collagen; 9.		
DR	PRINTS, PR00007; COMPLEMENTC1Q.		
DR	ProDom, PD000007; Collagen; 1.		
DR	SMART, SM00110; C1Q; 1.		
DR	PROSITE, PS01113; C1Q; 1.		
KW	Extracellular matrix; Connective tissue; Repeat; Hydroxylation;		
KW	Cartilage; Collagen; Signal; Glycoprotein.		
FT	SIGNAL	1	18
FT	CHAIN	19	674
FT	DOMAIN	17	56
FT	DOMAIN	57	519
FT	DOMAIN	520	674
FT	DOMAIN	539	674
FT	DISULFID	194	197
FT	MOD_RES	460	460
FT	MOD_RES	463	463
FT	CARBOHYD	611	611
FT	SEQUENCE	674 AA;	65546 MW; CD4CA73A03B004CA CRC64;
Query Match	31.1%;	Score 411.5;	DB 1; Length 674;
Best Local Similarity	34.9%;	Pred. No. 1,1e-21;	

Matches 96; Conservative 34; Mismatches 84; Indels 61; Gaps 6;

OY 15 GSPPLDDDKITSLCGHPGLPGLTGHGSGGLPGHGDGDRGAGPGEKGGGRLP 74
 Db 401 GNPGLPGKGDGPGIAGSPGLPGPVPAGAKGVPGHNGAGRGVPGITGTGPIGPPIIP 460
 OY 75 -----GPRGDRPGGEA-----GPAFTPGAGCS 99
 Db 461 GPRGSKDVGTPGPPGPAIAGVGLNGPFGPPGPGNAGPGLPGPPGPPGQVA 520
 OY 100 VP-----PSASAKSESRVPPSDAPLPDPRLVNEQHYDA 138
 Db 521 LPEDPVAKGQRPVSNAGVTGMPVSAFTVILSKAY--PAIGTPIPDKILYNKQGHDP 578
 OY 139 VNGKFTCCVPGVYFAVHATYTRASLQFDLVNKGSSIA-SFQPFQGMFKPASLSGAMV 197
 Db 579 RTGIFCKIPGILYTSYHNVKGTAMVGLYKNGTPVMTYDEYIKGYLDQA--SGSAVI 636
 OY 198 RLEPEDQVWVGVGDYIGIYASIKTSTFSGFLV 232
 Db 637 DLTENDQVWLQLEPNAGSNGIYSPVYHSSFSGFLV 671

RESULT 8
 COT7 HUMAN STANDARD; PRT; 289 AA.

AC 09BKJ2;
 DT 15-JUN-2002 (Rel. 41, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Complement-c1q tumor necrosis factor-related protein 7 precursor.
 GN C1QMF7 OR CTRP7.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN 11
 RP SEQUENCE FROM N.A.
 RA Piddington C.S., Sheppard P.O., Bishop P., Lasser G.W.;
 RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
 RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.

RN 12
 RP SEQUENCE FROM N.A.
 RC TISSUE-Testis;
 RA Strassberg R.;
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.

CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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CC
 DR EMBL; AF329839; AAK1963.1;
 DR EMBL; BC022187; AAH22187.1;
 DR Genbank; HGNC:14342; C1QTNF7.
 DR InterPro; IPR001073; C1Q.
 DR InterPro; IPR00087; Collagen.
 DR Pfam; PF00386; C1Q; 1.
 DR Pfam; PF01391; Collagen; 2.
 DR PRINTS; PR00007; COMPLEMENTC1Q.
 DR SMART; SMO0110; C1Q; 1.
 DR PROSITE; PS0113; C1Q; 1.
 KM Collagen; Signal.
 FT SIGNAL 1 16
 FT CHAIN 1 289
 FT DOMAIN 38 139
 FT DOMAIN 141 276

POTENTIAL.
 COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-
 RELATED PROTEIN 7.
 COLLAGEN-LIKE.
 C1Q.

SO SEQUENCE 289 AA; 30683 MM; A61609FF86D26946 CRC64;

Query Match 31.0%; Score 410.5; DB 1; Length 289;
 Best Local Similarity 40.0%; Pred. No. 5,4e-22;
 Matches 98; Conservative 26; Mismatches 84; Indels 37; Gaps 7;

OY 24 IPSL--CRHGRLPGTGHGSGGLPGRDRDRDAP-----GADGK 66
 Db 36 IPGLPGPPGPGANGSGPGRIGLPGRDRDRDRKKEKGTAGLRGKTGPIGLAGEKG 95
 OY 67 EGGPRGLPGPRGDPGPRGAGPAGPTGPAGE-----C-SVPPRAGFAKRS 111
 Db 96 DQGETKKGPIGPRGEGEVGPIGPPGKDRGQDPLPGVCRCSIVLKSAFVSGIT 155
 OY 112 ESRVPPSDAPLPDRVLVNEQHYDAVTKFTCOVGVYFAVHATYTRASLQFDLVN 171
 Db 156 TSY--PEERLPIITNKVLFNEGHTNPATGKFCAPGITYFSYDITLANKHLAIGLVN 213
 OY 172 GESIASFPQFGGMPKPSLSGAMVRLPEPDQVWVGVGDYIGIYASIK-TDSTSGF 230
 Db 214 GQYRIKTFDANTGHHVA--SGSTIVYLQPDDEVMLEIFITDQGLFSDPGMDSLFSGF 271

OY 231 LVYSD 235
 Db 272 LLYVD 276

RESULT 9
 CALA MOUSE STANDARD; PRT; 680 AA.

AC 005306;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 01-NOV-1995 (Rel. 32, Last annotation update)
 DE Collagen alpha 1(X) chain precursor.
 GN COL10A1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN 11
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c;
 RX MEDLINE=93143676; PubMed=8424763;
 RA Elima K., Beroia I., Rosati R., Metsaranta M., Garofalo S., Perala M.,
 de Crombrughe B., Vuorio E.;
 RT "The mouse collagen X gene: complete nucleotide sequence, exon
 RT structure and expression pattern.";
 RL Biochem. J. 289:247-253(1993).

RN 12
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/Sv; TISSUE=Liver;
 RX MEDLINE=9328750; PubMed=8477738;
 RA Kong R.Y.C., Kwan K.M., Lau E.T., Thomas J.T., Boot-Handford R.P.,
 Grant M.E., Cheah K.S.E.;
 RT "Intron-exon structure, alternative use of promoter and expression of
 RT the mouse collagen X gene, Col10a-1.";
 RL Eur. J. Biochem. 213:99-111(1993).

RN 13
 RP SEQUENCE OF 51-680 FROM N.A.
 RC STRAIN=DBA/2J;
 RX MEDLINE=92267014; PubMed=1587271;
 RA Apté S.S., Seldin M.F., Hayashi M., Olsen B.R.;
 RT "Cloning of the human and mouse type X collagen genes and mapping of
 RT the mouse type X collagen gene to chromosome 10.";
 RL Eur. J. Biochem. 206:217-224(1992).

RN 14
 RP SEQUENCE OF 385-627 FROM N.A.
 RC STRAIN=C57BL/6;
 RX MEDLINE=92182017; PubMed=1543751;
 RA Elima K., Metsaranta M., Kallio J., Perala M., Beroia I.,
 Garofalo S., de Crombrughe B., Vuorio E.;
 RT "Specific hybridization probes for mouse alpha 2(I)X and alpha 1(X)

collagen mRNAs.", Acta 1130:78-80(1992).

CC -1- FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTROPHIC
CC CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE
CC MINERALIZATION ZONES OF HYALINE CARTILAGE.

CC -1- SUBUNIT: HOMOTRIMER.

CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.

CC -1- SIMILARITY: STRONG, TO ALPHA 1 AND 2 TYPE VIII COLLAGENS.

CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.

CC -----

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CC -----

DR EMBL; X67348; CAA47763.1; -
DR EMBL; X65121; CAA46237.1; -
DR EMBL; X63013; CAA44741.1; -
DR EMBL; Z21610; CAA79736.1; -
DR PIR; S28807; S28807.
DR PIR; S31216; S31216.
DR PIR; S22215; S22215.
DR MGD; MGI:88445; Col10a1.
DR InterPro: IPR001073; C1Q.
DR InterPro: IPR000087; Collagen.
DR Pfam; PF00386; C1Q; 1.
DR Pfam; PF01391; Collagen; 9.
DR PRINTS; PR00007; COMPLEMENTC1Q.
DR ProDom; PD000007; Collagen; 2.
DR SMART; SM00110; C1Q; 1.
DR PROSITE; PS01113; C1Q; 1.
KM Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KW Cartilage; Collagen; Signal.

FT SIGNAL 1 18
FT CHAIN 1 680
FT DOMAIN 19 56
FT DOMAIN 57 519
FT DOMAIN 520 680
FT DOMAIN 545 680
FT DOMAIN 545 680
FT CONFLICT 248 248
FT CONFLICT 286 286
FT CONFLICT 306 306
FT CONFLICT 417 417
FT CONFLICT 451 451
FT CONFLICT 500 500
FT CONFLICT 567 567
FT CONFLICT 569 569
FT CONFLICT 571 572
FT CONFLICT 635 635
SQ SEQUENCE 680 AA; 66775 MW; FE984CA9A708E2 CRC64;

Query Match 30.8%; Score 408; DB 1; Length 680;
Best Local Similarity 33.4%; Pred. No. 1.9e-21;
Matches 99; Conservative 34; Mismatches 75; Indels 88; Gaps 9;

QY 15 GSPPLDNKIPSLCPGHPG-----GTPGHH-----GSG 44
DB 392 GEEGLNGPK-----GAPGLPGKGKDPGCGTGLNGPVGAKAVPGHNGAGRGGR 445

QY 45 GLPGRDGRDGRDAPGAPGEGKGGRRGLPGPR-----GDPGPRGA----- 86
DB 446 GIGCTGPTGPTGPPGPPGSKGDPGNAGAGPAGIATKGLNGPTGPPGPPGPRGSGERG 505

QY 87 --GPAGTPGAGECV-----PSASAKKSESRVPP 117
DB 506 LPPGPPGPPGPPGAGVMDGFIKAGORPLSGMPLVSNHGVGMPSAFTVILISKAY--P 563

QY 118 PSDNPLPFEDVLVNEQGHYDAVNGKFTCOVGGVYVFAHTVYRASLQDFLVKNG--ESIA 176

DB 564 AVGAPIPDEILYNRQHYDPRSGIFTCKIPGIYFYSYHVHVGTHWVGLYKNGTPTMY 623

QY 177 SFPGFGMPKPSASLGAMVLEBEDVYVNGVDYIGIYASIKTSTFSGFLV 232
DB 624 TYDEYSKGYLDA--SGSAIMEITENDYWIQLPNASNGLYSSEYVHSSFGFLV 677

RESULT 10
ID CQ12_HUMAN STANDARD; PRT; 285 AA.
AC CQ12_HUMAN
DT 15-JUN-2002 (Rel. 41, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Complement-c1q tumor necrosis factor-related protein 2 precursor.
GN C1QTNF2 OR CTRP2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Piddington C.S.; Bishop P.;
RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
[2]
RN [2]
RP SEQUENCE FROM N.A.
RA Strauberg R.;
RT Tissue=Muscle;
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CC or send an email to license@isb-sib.ch).

CC -----

CC EMBL; AF329836; AAK17960.1; -
CC EMBL; BC011699; AAH11699.1; -
CC GenBank; HGNC:14325; C1QTNF2.
CC InterPro: IPR001073; C1Q.
CC InterPro: IPR000087; Collagen.
CC Pfam; PF00386; C1Q; 1.
CC Pfam; PF01391; Collagen; 2.
CC PRINTS; PR00007; COMPLEMENTC1Q.
CC SMART; SM00110; C1Q; 1.
CC PROSITE; PS01113; C1Q; 1.
KW Collagen; Signal.

FT SIGNAL 1 15
FT CHAIN 1 285
FT DOMAIN 40 141
FT DOMAIN 143 285
SQ SEQUENCE 285 AA; 29952 MW; 7E31FF9868D4EDFA CRC64;

Query Match 30.4%; Score 403; DB 1; Length 285;
Best Local Similarity 36.3%; Pred. No. 1.8e-21;
Matches 98; Conservative 29; Mismatches 91; Indels 52; Gaps 8;

QY 9 LIGLAA-----GSPPLDNKIPSLC-----PGRGLRGTHGHSOGLPGRDGRD 54
DB 18 ILGAFARDFRKGSSQL-----VCSLPGSGPPGAPGAPSGMGRMGPPGAGDGDG 70

QY 55 RDGAPGAGGEGKGGRRP---GLPGRGPPGPRGAGPAGP---TGPAGECVPPPSAFSA 108
DB 71 HDGDRGDSGSGRRPPARTGNKRGKPGKAGAGIAGAGPPGPGVNTTPKHGTGPKKPGK 130

QY 109 KSESRRVPPPSDA-----PLPDRVLVNEQGHYDAVNGKFTCO 146

[illegible]

Query Match	Best Local Similarity	Score 397, DB 1, Length 245;
Matches 100; Conservative 33; Mismatches 34; Gaps 10;		
1 MBPILVLLIGLADSPPLDNDKIPSLC---	PGHPLGPGTPGHNGSGLPGRDGRDGRDG	57
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
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11	11	11
12	12	12
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96	96	96
97	97	97
98	98	98
99	99	99
100	100	100


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CC  EMBL: U17431; AA69978.1; ALT_FRAME.
DR  InterPro: IPR001073; Clq.
DR  InterPro: IPR000087; Collagen.
DR  Pfam: PF00386; Clq; 1.
DR  Pfam: PF01391; Collagen; 3.
DR  PRINTS: PR00007; COMPLEMENTC1Q.
DR  SMART: SM00110; C1Q; 1.
DR  PROSITE: PS01113; C1Q; 1.
KW  Extracellular matrix; Repeat; Collagen; Signal.
FT  SIGNAL 1 19
FT  CHAIN 20 419
FT  DOMAIN 20 57
FT  DOMAIN 58 274
FT  DOMAIN 275 419
FT  DOMAIN 272 419
FT  DOMAIN 37 37
FT  CARBOHYD 320 320
FT  CARBOHYD 419 AA; 43634 MW; 570CDB9675FCOF39 CRC64;
SQ  SEQUENCE 419 AA; 43634 MW; 570CDB9675FCOF39 CRC64;

Query Match
Best Local Similarity 28.2%; Score 373; DB 1; Length 419;
Matches 96; Conservative 23; Mismatches 99; Indels 38; Gaps 6;

OY 15 GSPPLDDNK-IPSLCPGHPGTPPHHSGQLPGR-DGRDGDGAPGAGEGEGR 70
DB 157 GEPGLNGTSGSIGREGPMGPGLAGTKLGEGQLGEGELGEGRGGPGLGEMGLNGT 216
OY 71 PGLPGRGDRGP-----RGEAGPAGTPGAGECSV 100
DB 217 DGVKGERGEPGLGKGDTGANGPPGPGRGMAIGRGKGLKGYRGPGPGPGGSEVE 276
OY 101 PRSAFSAKRSRVPSPDAPLPEDRVLVNQGSHYDAVYGTCCQVPGVYFAVAHATY 160
DB 277 QIRSNANSVGLPPSRSPPLSLPVKFDKLVYNGEGHMDPLANKFNVTYFSGYITVR 336
OY 161 RASLQFDLYKNG-ESIASFPQFGPGPKASISGGMVLEFEDDQVGVGVGYIYIA 219
DB 337 NRPVRAALVYNGVRKRLTRDSLYGQDIDA--SNLLALLTGDQVWLET-LDMNGKYS 393
OY 220 SIKTSTFSGFLVYSD 235
DB 394 SSEDSTFSGFLIYD 409

RESULT 14
CAL8_HUMAN STANDARD; PRT; 744 AA.
ID AC P27658; Q96D07;
DT 01-AUG-1992 (Rel. 23, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Collagen alpha 1 (VIII) chain precursor (Endothelial collagen).
GN COL8A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OC NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91231001; PubMed=2029894;
RA Mutsaers Y., Mattei M.-G., Yamaguchi N., Olsen B.R., Nishimura Y.;
RT "The complete primary structure of the human alpha 1 (VIII) chain and
RT assignment of its gene (COL8A1) to chromosome 3."
RL Eur. J. Biochem. 197;615-622(1991).
RP [2]
RP SEQUENCE FROM N.A.
PC Tissue:lung;
RA Strausberg R.;
RL Submitted (Sep-2001) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: MAJOR COMPONENT OF THE DESCENDING MEMBRANE (BASEMENT
CC MEMBRANE) OF CORNEAL ENDOTHELIAL CELLS.
CC -1- SUBUNIT: MAY FORM HOMOTRIMERS, OR HETEROTRIMERS IN ASSOCIATION

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CC WITH ALPHA 2 (VIII) TYPE COLLAGENS.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- MISCELLANEOUS: FOUR CONSECUTIVE GLY-PRO-PRO TRIPEPTIDES ARE PRESENT
CC AT THE C-TERMINUS OF THE TRIPEPTIDE-HELICAL REGION. THESE MAY PROVIDE
CC THE HIGH THERMAL STABILITY OF THIS REGION.
CC -1- SIMILARITY: STRONG, TO ALPHA 2 TYPES VIII AND X COLLAGENS.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC -----
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CC -----
DR  EMBL: X57527; CAA40748.1; -.
DR  EMBL: BC013581; AAH13581.1; -.
DR  PIR: S15435; S15435.
DR  Genew; HGNC:2215; COL8A1.
DR  MIM: 120251; -.
DR  InterPro: IPR001073; Clq.
DR  InterPro: IPR000087; Collagen.
DR  Pfam: PF00386; Clq; 1.
DR  PRINTS: PR00007; COMPLEMENTC1Q.
DR  PRODOM: PD000007; Collagen; 1.
DR  SMART: SM00110; C1Q; 1.
DR  PROSITE: PS01113; C1Q; 1.
KW  Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KW  Glycoprotein; Cell adhesion; Collagen; Signal.
FT  SIGNAL 1 28
FT  CHAIN 29 744
FT  DOMAIN 29 117
FT  DOMAIN 118 571
FT  DOMAIN 572 744
FT  DOMAIN 609 744
FT  CONFLICT 262 262
FT  CONFLICT 297 297
FT  CONFLICT 344 344
FT  CONFLICT 382 382
FT  CONFLICT 388 388
FT  CONFLICT 454 454
FT  CONFLICT 464 464
FT  CONFLICT 601 601
FT  CONFLICT 631 631
SQ  SEQUENCE 744 AA; 73364 MW; 2BC1B0955DE2C9A3 CRC64;

Query Match
Best Local Similarity 27.8%; Score 368; DB 1; Length 744;
Matches 90; Conservative 34; Mismatches 84; Indels 62; Gaps 6;

OY 24 IPSLC-RGHPGLRPTPHHSGQLPGRDGDGAPGAGEGEGRPLP----- 74
DB 475 VEGLLGPGGEGPGLPDDQGLQGPGLPGIGSGSGIGPGLGPGGELPGLPGLPGIGK 534
OY 75 -----AGECS 99
DB 535 PGVAGLHGPPGPKGALGPGQGGPGLGPGPGPGPPGPPVMPPTPPPGGEVLPMGLGIDG 594
OY 100 VPRSAFSAKRSRVP-----PSDAPLPEDRVLVNQGSHYDAVYGTCT 144
DB 595 VKPPIAYGAKKKGKNGGPAVEPAFTAEPLTAPFPVGAQVKKKLLYNGRQYNNPQTGLFT 654
OY 145 CQVPGVYFAVAHATYTRASLQFDLYKNGESIA-SFPQFGGMPKASISGGMVLEBED 203
DB 655 CEVPGVYFAVAHATYTRASLQFDLYKNGESIA-SFGVPGGMPKASISGGMVLEBED 712
OY 204 QVAVQGVGVGYIYIGIASIKTSTFSGFLVY 233
DB 713 RVFLQMPSEQAAGLVAGQYVHSSFSGYLLY 742

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RESULT 15
 CA18_MOUSE STANDARD; PRT; 743 AA.
 AC Q00750; Q9D2V4.1; 32, Created)
 DT 01-NOV-1995 (Rel. 41, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Collagen alpha 1(VIII) chain precursor.
 GN COL8A1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALE/C;
 RX MEDLINE=236626; PubMed=1499564;
 RA Muragaki Y., Shiota C., Inoue M., Ooshima A., Olsen B.R.,
 RA Nihomiya Y.,
 RT "Alpha 1(VIII)-collagen gene transcripts encode a short-chain
 RT collagen polypeptide and are expressed by various epithelial,
 RT endothelial and mesenchymal cells in newborn mouse tissues.";
 RL Eur. J. Biochem. 207:895-902(1992).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Kidney;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Atakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Atakawa K., Iwata M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
 RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schiraldi L.M., Scuderi F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boileau D., Boujuna N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamuya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Mordona P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Saeki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyshak-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kontsuki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection";
 RL Nature 409:685-690(2001).
 CC -1- FUNCTION: MAJOR COMPONENT OF THE DESCENDING MEMBRANE (BASEMENT
 CC MEMBRANE) OF CORNEAL ENDOTHELIAL CELLS.
 CC -1- SUBUNIT: MAY FORM HOMOTRIMERS, OR HETEROTRIMERS IN ASSOCIATION
 CC WITH ALPHA 2(VIII) TYPE COLLAGENS.
 CC -1- TISSUE SPECIFICITY: HIGH LEVELS IN CALVARIA, EYE & SKIN OF
 CC NEWBORN MICE. ALSO IN VARIOUS EPITHELIAL, ENDOTHELIAL AND
 CC MESENCHYMAL CELLS.
 CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
 CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
 CC -1- SIMILARITY: STRONG, TO ALPHA 2 TYPES VIII AND X COLLAGENS.
 CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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 CC -----
 DR EMBL: X66976; CAA47387.1; -;
 DR EMBL: X66977; CAA47387.1; JOINED.
 DR EMBL: AK018742; BAB31383.1; -;
 DR PIR: S23779; S23779.
 DR MGI: 88463; Col8a1.

DR InterPro: IPR001073; C1Q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1Q; 1.
 DR Pfam: PF01391; Collagen; 7.
 DR PRINTS: PR00007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 KW Glycoprotein; Cell adhesion; Collagen; Signal.
 FT SIGNAL 1
 FT CHAIN 28
 FT DOMAIN 29 743
 FT DOMAIN 29 117
 FT DOMAIN 118 571
 FT DOMAIN 572 743
 FT DOMAIN 608 743
 FT DOMAIN 6 6
 FT CONFLICT 85 85
 FT CONFLICT 109 109
 FT CONFLICT 109 109
 FT CONFLICT 248 248
 FT CONFLICT 313 313
 FT CONFLICT 323 324
 FT CONFLICT 323 324
 FT CONFLICT 361 361
 FT CONFLICT 596 596
 FT CONFLICT 717 719
 SQ SEQUENCE 743 AA; 73454 MW; F584D85BD53897F4 CRC64;
 Query Match 27.7%; Score 366.5; DB 1; Length 743;
 Best Local Similarity 32.8%; Pred. No. 1.5e-18;
 Matches 90; Conservative 36; Mismatches 77; Indels 71; Gaps 7;
 QY 29 PGHPGLPTPGHNGSQGLPGRDGRDGPAPGPKGKGRGLPGRGDP----- 80
 Db 470 PGLPGVPLGLGKGBRGIGRGGGLGPPGIPGVPSGPIGPPIGPKGBEGLPGRPGF 529
 QY 81 -----GPRG--AGRAPGPRGEGSVPR----- 103
 Db 530 PGVKGKGVAGLNGPPKPGALPGQGPGLGPPGPPGPPVWTFPSQGEYLPDMGL 589
 QY 104 -----SAFSKR-----SESVP-PPSDAPLPFRVLVNEGHYDAVT 140
 Db 590 GIDGVTPPHVVGKKGKGGGPRAYENPAFTALVELTVPFPYPGAPVKKFKLLYNGRQNNPQT 649
 QY 141 GKFTCVPGVYFAVATVYRASLQFDLVNGESIA-SFQFGGMPKPKASLGGAMRL 199
 Db 650 GITCVPGVYFAVAVHCKGAVWVALFENNEPMYTYDEYKGFGLDQ--SGSAVTL 707
 QY 200 EPEQVWVGVGVGYTGYTASITKDTSPGFLY 233
 Db 708 RPDQVFLQMPSEDAAGLVAGQYVHSSFSGYLLY 741

Search completed: June 20, 2003, 11:25:04
 Job time : 38 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 20, 2003, 08:45:39 ; Search time 60 Seconds
(without alignments)
834.491 Million cell updates/sec

Title: 1 US-09-944-403-42
Perfect score: 1325
Sequence: 1 MRPLLVTLLGLAGSPPLD.....DSTFSGFLVYSDWHSSPVFA 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

```
Searched:      671580 seqs, 206047115 residues
Total number of hits satisfying chosen parameters: 671580
```

```
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
```

```
Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries
```

```
Database :  
  
1:  sp.archaea:*  
2:  sp.bacteria:*  
3:  sp.fungi:*  
4:  sp.human:*  
5:  sp.invertebrate:*  
6:  sp.mammal:*  
7:  sp.mhc:*  
8:  sp.organelle:*  
9:  sp.phage:*  
10: sp.plant:*  
11:  sp.rodent:*  
12:  sp.virus:*  
13:  sp.vertebrate:*  
14:  sp.unclassified:*  
15:  sp.virus:*  
16:  sp.bacteriaph:*  
17:  sp.archaeo:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1254	94.6	240	11	Q8R002	Q8R002 mus musculus
2	425.5	33.1	243	6	Q95M04	Q95m04 bos taurus
3	422	31.8	243	6	Q95JD7	Q95jd7 macaca mulatta
4	415.5	31.4	675	6	Q9N178	Q9n178 sus scrofa
5	402	30.3	295	11	Q92BK4	Q92bk4 rattus norvegicus
6	395	28.8	294	11	Q92B84	Q92b84 mus musculus
7	373.5	28.2	194	6	Q95S095	Q95s95 canis familiaris
8	370.5	28.0	744	11	Q92D2V4	Q92dv4 mus musculus
9	370.5	28.0	744	11	Q921S8	Q921s8 mus musculus
10	368	27.8	744	4	Q96BD07	Q96bd07 homo sapiens
11	363.5	27.4	705	4	Q8T8EJ5	Q8t8ej5 homo sapiens
12	314	23.7	245	11	Q98PCM6	Q98pc6 mus musculus
13	270.5	20.4	246	11	Q96S30	Q96s30 mus musculus
14	266.5	20.1	196	11	Q92N00	Q92n00 tamias sibiricus
15	252.5	19.1	246	13	Q919C7	Q919c7 carassius auratus
16	247.5	18.7	256	13	Q919Q9	Q919q9 cyprinus carpio

17	241.5	18.2	347	4	Q961H6	Q961H6 homo sapien
18	238.5	18.0	583	4	Q96G58	Q96G58 homo sapien
19	238.5	18.0	992	4	Q9UG76	Q9UG76 homo sapien
20	238.5	18.0	1016	4	Q9Y6C2	Q9Y6C2 homo sapien
21	237	17.9	890	5	Q77087	Q77087 alvinella p
22	235	17.7	1017	11	Q99K41	Q99K41 mus musculus
23	234.5	17.7	173	6	Q62789	Q62789 sus scrofa
24	225	17.0	325	5	Q17036	Q17036 caenorhabdi
25	223	16.8	281	11	Q9QXP7	Q9QXP7 mus musculus
26	222.5	16.8	252	5	Q01945	Q01945 meloidogyne
27	222	16.8	321	13	Q919Q8	Q919Q8 brachydanio
28	222	16.8	1378	5	Q97405	Q97405 haliotis di
29	221.5	16.7	120	6	Q77782	Q77782 oryctolagus
30	221.5	16.7	248	6	Q9YT06	Q9YT06 ovie aries
31	220	16.6	341	5	Q20142	Q20142 caenorhabdi
32	219.5	16.6	205	11	Q9D0W2	Q9D0W2 mus musculus
33	219.5	16.6	326	11	Q8R066	Q8R066 mus musculus
34	219.5	16.6	381	5	Q94399	Q94399 caenorhabdi
35	219.5	16.6	589	11	Q99JL6	Q99JL6 mus musculus
36	219.5	16.6	1453	11	Q63079	Q63079 rattus norv
37	218	16.5	182	11	Q8R1P2	Q8R1P2 mus musculus
38	217	16.4	319	5	Q17038	Q17038 caenorhabdi
39	217	16.4	1160	4	Q14046	Q14046 homo sapien
40	217	16.4	1344	13	Q934I9	Q934I9 gallus galli
41	217	16.4	1418	6	Q28396	Q28396 equus cabal
42	217	16.4	1442	11	Q62031	Q62031 mus musculus
43	217	16.4	1442	11	Q62033	Q62033 mus musculus
44	217	16.4	1450	13	Q9Y1B4	Q9Y1B4 cynops pyrrr
45	217	16.4	1459	11	Q62032	Q62032 mus musculus

ALIGNMENTS

RESULT 1

208002 PRELIMINARY; PRT; 243 AA.

DE Similar to DKZPSP86B0621 protein (Hypothetical 25.4 kDa protein).
DT 01-JUN-2002 (TREMBL) . 21, last annotation update)
DT 01-JUN-2002 (TREMBL) . 21, last sequence update)
RE SwissProt:Q9V7D1 (Mus musculus (Mouse)).

OC Mus musculus (Mouse); Chordata; Craniata; Vertebrata; Euteleostomi;
OC Eukaryota; Metazoa;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
OX NCBI_TaxId=10090; [1]
RN SEQUENCE FROM N.A.
RP Strausberg R.;

Query Match	94.6%	Score 1254;	DB 11;	Length 243;
Best Local Similarity	93.4%	Pred. No. 5.1e-100;		
Matches 227; Conservative	7;	Mismatches 9;	Indels 0;	Gaps 0;

1 MRPLTLLVLLGLAAGSEPLDNDKIPSLCPGHGPGLPCTPGHGGSGQLPGRDGRDGRDAPG 60
 1 MRPLTLLVLLGLVAGSPPLDNDKIPSLCPGQPGLPCTPGHGGSGQLPGRDGRDGRDAPG 60
 1 MRPLTLLVLLGLVAGSPPLDNDKIPSLCPGQPGLPCTPGHGGSGQLPGRDGRDGRDAPG 60
 61 APGKGGKGRGRLPGPCGDCQPCGEGAPAPCTPGAGKCSVPSPASFAKSSSSKVPSPSD 120
 61 APGKGGKGRGRLPGPCGDCQPCGEGAPAPCTPGAGKCSVPSPASFAKSSSSKVPSPSD 120
 61 APGKGGKGRGRLPGPCGDCQPCGEGAPAPCTPGAGKCSVPSPASFAKSSSSKVPSPSD 120
 121 APLPDRLLVNEQGHYPAVTKGFTQVPGVYVFAVHAITYRASLIQFDLVNAGSSIASFFQ 180

[illegible]

```

Query Match Summary      31.8%; Score 422; DB 6; Length 243;
Best Local Similarity   42.3%; Pred. No. 1,4e-28;
Matches 104; Conservative 28; Mismatches 88; Indels 26; Gaps 8

```

DR InterPro; IPR001073; Clq.
 DR InterPro; IPR000087; Collagen.
 DR Pfam; PF00386; Clq; 1.
 DR Pfam; PF01391; Collagen; 8.
 DR PRINTS; PR00007; COMPLEMENTC1Q.
 DR ProDom; PD000007; Collagen; 2.
 DR SMART; SM00110; Clq; 1.
 DR PROSITE; PS01113; Clq; 1.
 DR Collagen.
 KW SEQUENCE 675 AA; 65447 MW; 26397B10310383F9 CRC64;

Query Match 31.4%; Score 415.5; DB 6; Length 675;
 Best Local Similarity 36.1%; Pred. No. 1.7e-27;
 Matches 99; Conservative 34; Mismatches 82; Indels 59; Gaps 7;

QY 15 GSPPLDDNKRPSLCGHPGLPPTPGHHGSGQLPGRDGRDGAAPGAEKSGEGRGLP 74
 DB 402 GNFGLPGRKGRPGIGGPGPLGPGVPAKAGVPGHNGEAGPRGAPGIPGTRGPIGPGRIP 461
 QY 75 -----GPRGDPGPRGEA-----GPAFTGPRGCS 99
 DB 462 GPPGSKDPPGNPGPPGAGIATKGLNGFTGPPGPKGHAQBRLPGRPPGPPGQ-A 520
 QY 100 VPP-----RSASAKRSBSRP-----PPSDAPLPFDRVLVNEQHYAV 139
 DB 521 VPPGPFVKEGQAFVSAQGVGMVSAFTVILSKAYPAIGAPLIPFDKILNGQOHDPK 580
 QY 140 TGKFTCOVGVYFPAVHATVYRASLQFDLVKNGESIA-SFPGFGWPKPAPSLSGAMVR 198
 DB 581 TGFTCRIPGITYFSEHIVKCTHAMVGLYKNGTFVMTYDEYVGYLDAQ--SGSALTD 638
 QY 199 IEPEDQVWVGVDYIGIYASIKTDSFGFLV 232
 DB 639 LTNDQVWLQLPNAGSNGLYSSSEYVHSSFGFLV 672

RESULT 5
 Q921K4 PRELIMINARY; PRT; 295 AA.
 ID Q921K4;
 AC Q921K4;
 DT 01-MAY-1999 (TREMblrel. 10, Created)
 DT 01-MAY-1999 (TREMblrel. 10, Last sequence update)
 DT 01-JUN-2001 (TREMblrel. 21, Last annotation update)
 DE Collagen alpha 1 type X (fragment).
 GN COL10A1.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OC NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=SPRAGUE-DAWLEY;
 RX MEDLINE=20310874; Pubmed=10853827;
 RA Marks S.A., Lundmark C., Christensen C., Murtz T., Odgren P.R.,
 RA Seifert M.F., Mackay C.A., Mason-Savas A., Popoff S.B.;
 RA "Endochondral bone formation in toothless (osteopetrotic) rats:
 RT failures of chondrocyte patterning and type X collagen expression.";
 RL Int. J. Dev. Biol. 44:309-316 (2000).
 DR EMBL; AJ131848; CAA10518.1; -
 DR InterPro; IPR001073; Clq.
 DR InterPro; IPR000087; Collagen.
 DR Pfam; PF00386; Clq; 1.
 DR Pfam; PF01391; Collagen; 3.
 DR PRINTS; PR00007; COMPLEMENTC1Q.
 DR SMART; SM00110; Clq; 1.
 DR PROSITE; PS01113; Clq; 1.
 FT NON TER 1
 SQ SEQUENCE 295 AA; 30012 MW; FF43B1548028613E CRC64;

Query Match 30.3%; Score 402; DB 11; Length 295;
 Best Local Similarity 36.7%; Pred. No. 9.3e-27;
 Matches 94; Conservative 31; Mismatches 79; Indels 52; Gaps 7;

QY 25 PSLCPGH-----PGLPPTGHHGSGQLPGRDGRDGAAPGAEKSGEGRGLP 67
 DB 41 PKGVPGHNGEAGPRGAPGIPGTRGPIGPGRGSKDPPKPPGAPGAGIVTKGLNCP 100
 QY 68 GGRPGLGPR---GDPGPRGEAGPAGFTGPRGCSVP----- 101
 DB 101 AGPPRGPRGPRGHTGEGPLGPPGPDPGPPGQAVIPDFTYSGORPLSGMPLYSANOG 160
 QY 102 -----PSAPAKRSBSRPSPDAPLPFDRVLVNEQHYDAVTKFTCOVGVYFPAVHA 157
 DB 161 VTGMPVSAFTVILSKAY--PAVGAIPFDEILVNRQHDPRGRTICTKIPGITYSYH 218
 QY 158 TVYRASLQFDLVNG-ESIASFPQFGWPKPAPSLSGAMVRLEPEDQVWVGVDYIG 216
 DB 219 HVGCTHVVGLYKNGFTVMTYDEYSKGYLDAQ--SGSALMELTENDQVWLQLPNBSNG 276
 QY 217 TVASIKTDSFGFLV 232
 DB 277 LYSSEYVHSSFGFLV 292

RESULT 6
 Q9DBU4 PRELIMINARY; PRT; 294 AA.
 ID Q9DBU4;
 AC Q9DBU4;
 DT 01-JUN-2001 (TREMblrel. 17, Created)
 DT 01-JUN-2001 (TREMblrel. 17, Last sequence update)
 DT 01-JUN-2001 (TREMblrel. 17, Last annotation update)
 DE 1810033K05RIK protein.
 GN 1810033K05RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=PANCREAS;
 RX MEDLINE=21085660; Pubmed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Komoto H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
 RA Saito T., Okasaki Y., Gojopori T., Bono H., Kanukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nakado I., Pesole G., Quackenbush J.,
 RA Schiml L.M., Stanbly F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Kono H., Baldarelli R., Barsh G.,
 RA Blake J., Botfield D., Boujunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamuya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schenbach C., Seya T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyszynski-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690 (2001).
 DR EMBL; AK007683; BAB25187.1; -
 DR MGD; MGI:1916433; 1810033K05RIK.
 DR InterPro; IPR001073; Clq.
 DR InterPro; IPR000087; Collagen.
 DR Pfam; PF00386; Clq; 1.
 DR Pfam; PF01391; Collagen; 2.
 DR PRINTS; PR00007; COMPLEMENTC1Q.
 DR SMART; SM00110; Clq; 1.
 DR PROSITE; PS01113; Clq; 1.
 FT NON TER 1
 SQ SEQUENCE 294 AA; 30865 MW; 6D3905AE7C19B6FA CRC64;

Query Match 29.8%; Score 395; DB 11; Length 294;
 Best Local Similarity 35.9%; Pred. No. 3.7e-26;
 Matches 94; Conservative 31; Mismatches 93; Indels 44; Gaps 6;


```

OY 3 PLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHSGCGLBGRDGRDGRGAP 62
DB 41 FOLVCSLPG-----PGPPGPPGAPSSGVVGRWGFGPGQDQDQDQD 87
OY 63 GEGKGGGPP---GLPGRGDPGPRGAGAPG---TGPAGCSVPRAFAKRSRSHVP 116
DB 88 GEGGPGGTGNRGKQGPAGKAGATGAGPRGKGVSGTPGKHGTGKGPAGKKEPRLP 147
OY 117 PPSDA-----PLPFDRLVNEQGHYDAVTGKTCQVPGVYFA 154
DB 148 GPCSGSSRAKSAFVAVTKSPRERLPIKFDKILNMGCHYNASSGKFCVSPGIYYFT 207
OY 155 VHAATYRASLOPDLVNGESIASFPQFGGPKRPSLSGAMVRLPEPQVAVVGVGDY 214
DB 208 YDITLANKHLAIGLVNNGQYRIPTDANTGNHVA--SGSTLALKEGDEVLQIFYSBQ 265
OY 215 IGI-YASIKTDSFSGELVYSD 235
DB 266 NELFDPPYWTDSLFTGFLIYAD 287

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RESULT 7

```

ID 095J95 PRELIMINARY; PRT; 194 AA.
AC 095J95;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adiponectin (Fragment).
GN APM1.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=ADIPOSE TISSUE;
RA Kabir M., Ananthanarayan S., Ionut V., Kim S.P., Van Citters G.W.,
RA Dea M.K., Bergman R.N.;
RT "Regulation of Adiponectin gene expression in the fat-fed dog.";
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: ARL17206; AAL09702.1; -
DR InterPro: IPR001073; Clq.
DR Pfam: PF00386; Clq; 1.
DR Pfam: PF01391; Collagen; 1.
DR ProDom: PD000007; Collagen; 1.
DR PROSITE: PS01113; Clq; UNKNOWN_1.
FT NON_TER 1
FT NON_TER 194
SQ SEQUENCE 194 AA; 20890 MW; 3AA3D947D187AFA CRC64;

```

Query Match 28.2%; Score 373.5; DB 6; Length 194; *
 Best Local Similarity 42.3%; Pred. No. 1.6e-24;
 Matches 90; Conservative 22; Mismatches 66; Indels 35; Gaps 9;

```

OY 8 LLLGLAAGSPPLDNNKIPSLCPG-HRGLPTGPHHSGCGLBGRDGRDGRGAPRABEGK 66
DB 4 VLLPLPRGA-----CPGMMAGIPGHPGNGT---PGRGRD-----GTPEKG 43
OY 67 EGGRPGPLGPRGD-----PGRGAGPAGPTGPAAGCSVPRAFAKRSRSHVP 117
DB 44 EKGPGGLVGRKDGVTGVTGVBGRPRGPRGKRGKRGESAVYHRSASFV-GLSRITV 102
OY 118 PSDAPLPFDRLVNEQGHYDAVTGKTCQVPGVYFAVHAATYRASLOPDLVNGESIAS 177
DB 103 P-NVPIRPTKIFVNIQNHVDGTTGKFNICNIGLXYFSYTHITVYLDVAVSLYKDK--AM 159
OY 178 FFOFGKWPKA-SLSGAMVRLPEPQVAVVGVGDY 209
DB 160 LFTYDQYQKQVDAQSGSVLLHLEVGDDVWLYQV 192

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RESULT 8

```

ID 09D2V4 PRELIMINARY; PRT; 744 AA.
AC 09D2V4;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-JUN-2001 (TREMBLrel. 17, Last annotation update)
DE Procollagen, type VIII, alpha 1.
GN COL8A1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=KIDNEY;
RX MEDLINE=21085660; Pubmed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arikawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirml L.M., Staabli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barin G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Gustincich S., Hill D., Hofmann M., Matsuura J., Mombarts P.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Sakamoto N.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyszewski-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL: AK018742; BAB31383.1; -
DR MGI: 88463; Col8a1.
DR InterPro: IPR001073; Clq.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; Clq; 1.
DR Pfam: PF01391; Collagen; 7.
DR PRINTS: PR00007; COMPLEMENTC1Q.
DR SMART: SM00110; Clq; 1.
DR PROSITE: PS01113; Clq; 1.
SQ SEQUENCE 744 AA; 73581 MW; C659BDCBCDEBB9C CRC64;

```

Query Match 28.0%; Score 370.5; DB 11; Length 744;
 Best Local Similarity 34.6%; Pred. No. 1.4e-23;
 Matches 93; Conservative 32; Mismatches 83; Indels 61; Gaps 7;

```

OY 24 IPSLC--RGHRLPTGPHHSGCGLBGRDGRDGRGAPRABEGK 74
DB 476 VGLLGPKEGPEIPEDDGLQGPPIGLVGS8GPIGPGRIGRPLPPEPGRGVK 535
OY 75 -----GPRGDPGPRGAGAPGPTP-----AGCSV 100
DB 536 PGVAAGHGPGRKALGPGQGGLGPPGPPGPPPAVMPPTSPGSEYLPDMGIGIDGV 595
OY 101 PRSAFSAKR-----SESRVP--PRSDAPLPFDRLVNEQGHYDAVTGKTC 145
DB 596 KPPHYVAGKKGKGGPAYEMPAFTLVTVPPEVAGVAFDILLNGQNINPQTGITC 655
OY 146 OYGVYVFAVHAATYRASLOPDLVNGESIAS-SFPQFGKWPKPSLSGAMVRLPEPDQ 204
DB 656 EYPGVYVFAVHAATYRASLOPDLVNGESIAS-SFPQFGKWPKPSLSGAMVRLPEPDQ 204
OY 205 VVWGVGVNDYIGIYASIKTDSFSGELVY 233
DB 714 VFLQMPSEDAAGLYAGQYVHSSPSGYLLY 742

```

Query Match	27.8%	Score 368	DB 4	Length 744
Best Local Similarity	33.3%	Pred. No. 2.3e-23		
Matches	90	Conservative	34	Mismatches 84; Indels 62; Gaps 6
Query	24	IPSLC--KGHPGLPGTPTGHHGSGCLRGROGROGRODGAAPAPKEKGGRRGLP-----	74	
Db	475	VPGLIGKPGEPGIPGPDGIGQPGIPRIGGSPSPICPPGIPGKGRGLPGPPGFGICG	534	
Query	75	-----GPRDPPRGAGPAGCTGP-----AGCS	99	
Db	535	PGVAGLHPGPGKALGPQGPGLPGRPGPGPGPPVAMPPTPPPGEGYLPDMGIGIDG	594	
Query	100	VPPSAFSAKRSRVP-----PPSDAPLPFDRLVINEQGHYAVNGKPT	144	
Db	505	VKPRPAVAKKKGKNGGAVEMPAFTALPTAPPPVGAIPVFENLTLNGRONTVPQGITP	654	
Query	145	CQVPGVYVFAVHATVTVRASLOPDLVNRGESIA-SFPGFGWPKPASTSGCAVWRLEPED	203	
Db	655	CEVPGVYVFAVHVICKGGANVWVAFKNNPEPMYTYDEIKKGFILDQA--SSAVLLLRPD	712	
Query	204	QVWVGVGVGYIGYIASIKTDSTSGFLVY	233	
Db	713	RVFLQMPSEQAGLYAGQYVHSSPSGYILY	742	

RESULT 11

O8TEJ5

PRELIMINARY:

PRT: 705 AA.

ID	O8TEJ5	PRELIMINARY:	PRT:	705 AA.
AC	O8TEJ5			
DT	01-JUN-2002 (TrEMBLrel. 21, Created)			
DT	01-JUN-2002 (TrEMBLrel. 21, Last sequence update)			
DT	01-JUN-2002 (TrEMBLrel. 21, Last annotation update)			
DE	FLJ00201 protein (Fragment).			
GN	FLJ00201.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_TaxId=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=SPLEEN;			
RA	Jikuya H., Takano J., Nomura N., Kikuno R., Nagase T., Ohara O.;			
RT	"The nucleotide sequence of a long cDNA clone isolated from human spleen."			
RL	Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; AK074129; BAB84955.1; -.			
FT	NON TER			
FT	1			
SO	SEQUENCE			
	705 AA; 67430 MW; 07DB85A65A94BED3 CRC64;			

Query Match

27.4%

Score 363.5; DB 4; Length 705;

Best Local Similarity

39.3%

Pred. No. 5.2e-23;

Matches

95;

Conservative

25;

Mismatches

95;

Indels

27;

Gaps

8

Query	11	GLAAGSPPLDNDKTPISLCFPHRPLGTPPHHSGQGLRGDRDGRDGAAPAPKEKGGGR	70
Db	468	GLQGPAPRIPGPGIPGI-KGEPGIPGPG-BGRAGEHTAGTGPFGVPGVCSGICITPPCP	525
Query	71	PGLGPPGPDGPRGAGPAG---PTGPA-----GECVPPRSASFSAKRS	112
Db	526	PGPPPPAPAPAPAPFTGTAGLHLPGNGVEBAVLGKGGKPGFGIGLSAAHTAPATFVLTS	585
Query	113	SRVP-PPSDAPLPFDRLVINEQGHYDAVTEGKTCQVPGVYVFAVHATVTVRASLOPVLNR	171
Db	566	---PPPSAGMVFVKFDRTLTYNGSHSYNPATGIFTCPVGVYVFAVHATVTVRASLOPVLNR	642
Query	172	G-ESIASFQFPGCMKPRKASISGAMVRLPEPDQVWVQVGVGYIGYIASIKTDSTFSGF	230

Db 643 NVPATTYDEYKGYLIDQA--SGGANVLQRPNDQVWVQMPDQANGLSTYHISFSGF 700

Oy 231 LV 232
Db 701 LL 702

RESULT 12

Q9DCM6 PRELIMINARY; PRT; 245 AA.
ID 09DCM6
AC 09DCM6
DT 01-JUN-2001 (TEMBLrel. 17, Created)
DT 01-JUN-2001 (TEMBLrel. 17, Last sequence update)
DT 01-JUN-2001 (TEMBLrel. 17, Last annotation update)
DE Complement component 1, q subcomponent, alpha polypeptide.
GN C1QA.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=KIDNEY;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shimagawa A., Shibata K., Yoshino M., Itch M., Ishi Y.,
RA Arakawa T., Hara A., Pukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aikawa K., Itawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,
RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batilov S., Cassavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
RA Schirni L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Oikido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carinci P., de Bonaldo M.F.,
RA Brownstein M.J., But C., Flecher C., Fujita M., Gariboldi M.,
RA Gustinich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Marzarelli R., Mommaerts P.,
RA Nordone P., Ring B., Schoenbach C., Rodriguez I., Sakamoto N.,
RA Saeki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Watanabe-Borja A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [12]
RP SEQUENCE FROM N.A.
RA Strauberg R.;
RL Submitted (JAN-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL; AK002655; BAB22262.1; -;
DR EMBL; BC002086; AAH02086.1; -;
DR MGI; MGI:88223; C1qa.
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01391; Collagen; 1.
DR PRINTS; PR00007; COMPLEMENTC1Q.
DR SMART; SM00110; C1Q; 1.
DR PROSITE; PS01113; C1Q; 1.
SQ SEQUENCE 245 AA; 25974 MW; 41C2066D49592020 CRC64;

Query Match 23.7%; Score 314; DB 11; Length 245;
Best Local Similarity 35.3%; Pred. No. 2.7e-19;
Matches 79; Conservative 24; Mismatches 85; Indels 36; Gaps 6;

Oy 29 PGHPLGPTGPHHSGOGLPGRDGRDGDGAPGAPGKGRGRLPGPRGDPGRGEGAP 88
Db 36 PGNPGRGPRGLKGRGEPGAGI--RTGIRGKGPGRGSGPRGKGNGLGPGSPGLSD 93
Oy 89 AGPTGPAEGCSVP-----PRSAFSAKRSRVPSPSDAPLPDRVLVNEQGHYDAVTK 142
Db 94 SGPGGLGVKGNPNIRDPAPAFSAIKRN---PMLANVITDKLITNQESPYQWHTGR 150
Oy 143 FTCCVPGVYVAHVATYRASLQPDVLVNGESIASPFGFGMPKA----- 189

Db 151 FICNAVGFYF-----NFOVISKMDLCFITSSSGGQPRDLSFNTNNKGLFQ 199

Oy 190 SLSGAMVRLPEPDQVWVQVGVYIGYASIKTDSFGELY 233
Db 200 VLAGTIVQLRRGDPEVIEKDPAGK-RIVQGTADSIFFSGFLIF 242

RESULT 13

Q9ES30 PRELIMINARY; PRT; 246 AA.
ID 09ES30
AC 09ES30
DT 01-MAR-2001 (TEMBLrel. 16, Created)
DT 01-MAR-2001 (TEMBLrel. 16, Last sequence update)
DT 01-DEC-2001 (TEMBLrel. 19, Last annotation update)
DE Collagenous repeat-containing sequence of 26kDa protein.
GN COR3 OR COR326.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=21264842; PubMed=11071891;
RX Maeda T., Abe M., Kurisu K., Jikko A., Furukawa S.;
RA "Molecular cloning and characterization of a novel gene, COR326,
RT encoding a putative secretory protein and its possible involvement in
RT skeletal development.";
RL J. Biol. Chem. 276:3628-3634(2001).
DR EMBL; AF246265; AAG33704.1; -;
DR MGI; MGI:1932136; Cors.
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01391; Collagen; 1.
DR PRINTS; PR00007; COMPLEMENTC1Q.
DR SMART; SM00110; C1Q; 1.
DR PROSITE; PS01113; C1Q; 1.
SQ SEQUENCE 246 AA; 26828 MW; 42A481B3E9F48F7E CRC64;

Query Match 20.4%; Score 270.5; DB 11; Length 246;
Best Local Similarity 31.8%; Pred. No. 1.5e-15;
Matches 78; Conservative 33; Mismatches 107; Indels 27; Gaps 6;

Oy 4 LTVLLGLA-----AGSPPLDNDKIPSLCPHPLPPTPGHSGOGLPGRDGR 52
Db 11 LPLPLFLPCLCQDPTYESPQAGLPDPCSKCHGDXGFRGYPGPPGPGIIPGNHN 70
Oy 53 DGRDAPGAPGKGRGRLPGPRGDPGRGEGAPGAPGKGRGRLPGPRGDPGRGEGAP 112
Db 71 NNNNGATVGHGAKGR-----KGDGDLGPRGGRGQHGPKGKGPVPPPLQIAFMASTL 124
Oy 113 SRVPPSDAPLPDRVLVNEQGHYDAVTKCTQVPGVYVAV---HATVYRASLQFDL 168
Db 125 AIFHSNQNGIIFSSVERNIGNFPVMTGRGAPVSGVYFTFSMMKEDVEVYV--L 182
Oy 169 VVNGESIASFFQFGGMPKPSLSGAMVRLPEPDQVWVQVGVYIGYASIKTDSFSS 228
Db 183 MHNGNTVFMSYVETKGSQDTS-SHNAVILKLAKGDEVLRMWNG--ALHGDHQRSTFA 238
Oy 229 GELVY 233
Db 239 GFLIF 243
RESULT 14
O920N0 PRELIMINARY; PRT; 196 AA.
ID 0920N0
AC 0920N0
DT 01-DEC-2001 (TEMBLrel. 19, Created)
DT 01-DEC-2001 (TEMBLrel. 19, Last sequence update)
DT 01-JUN-2002 (TEMBLrel. 21, Last annotation update)
DE HP-20.

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DR PROSITE: PS00615; C_TYPE LECTIN_1; UNKNOWN_1.
DR PROSITE: PS00611; C_TYPE LECTIN_2; 1.
RM LECTIN; signal.
FT NON TER 1 1 POTENTIAL.
FT SIGNAL <1 13 S -> F.
FT VARIANT 145 145
SQ SEQUENCE 246 AA; 25709 MW; AB692828D289D0D5 CRC64;

Query Match 19.1%; Score 252.5; DB 13; Length 246;
Best Local Similarity 31.9%; Pred. No. 5.2e-14;
Matches 80; Conservative 33; Mismatches 73; Indels 65; Gaps 14

QY 4 LVLTLILGLAGSPPLDNNKIPLSLCPGHLPGTTPGHHSQGLPGRDGRDRCRGARGG 63
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 2 LILQFALQLLDGAEQNINL-----CPAYGVPGTTPGHN-----GLPGRDGRDGRDGAIGPKG 53

QY 64 EKSG-----GRPGLPGRPGDPGPRGEGAPRPGAPGEGSVPRSAFSAKRSSESVPPP 118
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 54 EKSGSGVSVQGPGRKAGPPGTAGKEGKRGKPSGSPGSSVLSLSKSEIQQLKAKI---- 110

QY 119 SDAFLPPDRVLVNEQGHYDAVTGKFTCVPGVYFAVAHATVYRASLQFDLVKNGESIAF 178
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 111 ---ATPEK---VSSVCHFRKV-----GQKYITTDGVVG---NFD-----QGLKSC 146

QY 179 FQFGGMPKPEASLSGGAMV---RLPEPDQVWQV-----GVGD---YIGIYASIKTDSFF-- 227
   :||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 147 MEF-----GGTWSPTSAMNQALLTLVVSGLSGSKKPYIGV-TDRKTEGQFVD 194

QY .228 --SGFLVYSDW 236
   |:::|
DB 195 TEKGQLTFNNW 205

Search completed: June 20, 2003, 11:24:16
Job time : 63 secs

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